Prof.dr.ing. Ciprian DOBRE

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Lista contractelor (selectie in ultimii 10 ani)

Contracte finanţate din sursă naţionala:

- 2014-2017: MobiWay – Platformă Integrată pentru Sistemele de Transport Inteligent ale Viitorului, Proiect de parteneriat CNCSIS-PN-II-PT-PCCA-2013-4, Contract de finanţare nr. 16 / 2014. Contribuţie personală: Director de proiect, proiectarea arhitecturii, dezvoltarea de servicii. Valoare: 785.000 RON.

- 2010-2013: CAPIM - Context-Aware Platform using Integrated Mobile Services, Contract de Cercetare Postdoctorală nr. EXCEL N1/5 din 01.05.2010 (Responsabil de proiect: Ciprian Dobre), finanţat prin contractul de finanţare POSDRU/89/1.5/S/62557 "Excelenţă în cercetare prin programe postdoctrorale în domenii prioritare ale societăţii bazate pe cunoaştere" (EXCEL), competiţia 2010. Contribuţie personală: Director de proiect, dezvoltarea arhitecturii sistemului dependent de context, a modelelor contextuale şi componente mobile.

- 2015-2017: DataWay - Real-time Data Processing Platform for Smart Cities: Making sense of Big Data, PN-II-RU-TE-2014-4-2731, Director proiect: Conf.dr.ing. Florin Pop. Contribuţie personală: modelare date, proiectare şi dezvoltare metode şi tehnici achiziţie şi procesare inteligentă a datelor.

- 2014-2016: CLUeFARM - Information system based on cloud services, accessible through mobile devices, for quality improvement of products and business development in farms, PNII, ID. 29/2014, Director proiect: Prof.dr.ing. Valentin Cristea. Contribuţie personală: proiectare soluţie achiziţie date pornind de la componente hardware pentru achiziţie.

- 2012-2013: SideDOWN - Smart Internet Data Downloader and Aggregator, National PNII - Servicii suport pentru inovare – Cecuri de , ID: PN-II-IN-CI-2012-1-0324, Benef.: SC Essentials Systems SRL. Contribuţie personală: suport pentru implementare servicii achiziţie şi procesare date.

- 2013-2015: Pregătirea Sistemului Naţional de e- Administraţie în România - SMIS 32612, cofinanţat din Fondul Social European, prin Programul Operaţional Dezvoltarea Capacităţii Administrative (PO-DCA), Manager Proiect: Marius Dorian Nicolăescu. Contribuţie personală: dezvoltare şi training module curs Cloud în Administraţia Publică.

- 2012-2013: Proiect HEART (tip PC): "High Performance Computing of Personalized Cardio Component Models" (Contract UEFISCDI - 130/2012). Contribuţie personală: supervizare activităţi de implementare module software suport.

- 2010-2012: Programul PN-II PD, *TRANSYS – Models and Techniques for Traffic Optimizing in Urban Environments*, Contract CNCSIS-PN-II-RU-PD ID: 238 (Director proiect: Ciprian Dobre). Participant în calitate de director (unic participant). Contribuţie personală: dezvoltarea de modele şi metode de optimizare a traficului urban, prin captarea datelor din trafic, construirea de modele de trafic, asigurarea controlului în trafic prin metode de navigaţie dinamică, folosirea de semafoare inteligente, totul peste soluţii destinate asigurării securităţii şi toleranţei la defecte în cazul schimbului de date.

- 2011-2013: OIPOSDRU, Proiect Multi-Regional, Axa: 1."Educaţia şi formarea profesională în sprijinul creşterii economice şi dezvoltării societăţii bazate pe cunoaştere", ID: 57748, *Program strategic pentru promovarea inovării în servicii prin educaţie deschisă, continuă (INSEED)*, (Director proiect: Prof.dr.ing. T. Borangiu). Contribuţie personală: dezvoltarea conţinutului cursului de formare continuă Servicii Cloud.

- 2008-2011: Programul PN-II, Programul 4 "Parteneriate în domeniile prioritare", nr. 278/07.11.2008, *INFOSTRUCTURE: Advanced electronic services platform for optimizing and adapting businesses to real-time economy* (Director proiect: Mihai Tănase, UTI Bucureşti). Contribuţie personală: dezvoltarea de soluţii destinate tranzacţiilor electronice.

- 2009-2011: Programul Operaţional POS CCE, Axa Prioritară AP2: Creşterea Competitivităţii Economice prin Cercetare - Dezvoltare şi Inovare, Contract 51 / 11.05.2009, *GEEA – Centru de resurse GRID multi-corE de înaltă pErformAnţă pentru suportul cercetării* (Director proiect: Prof.dr.ing. N. Ţăpuş). Contribuţie personală: Soluţii software pentru modelarea şi simularea sistemelor distribuite de tip Grid.

- 2008-2011: POS CCE nr. 154/323 cod SMIS – 4428, proiect co-finanţat prin Fondul European de Dezvoltare Regională, "Investiţii pentru viitorul dumneavoastră", *Platformă de eLearning şi curriculă*

eContent pentru învăţământul superior tehnic, (Director proiect: Prof.dr.ing. N. Ţăpuş). Contribuţie personală: dezvoltarea conţinutului digital pentru cursurile Instrumente pentru Dezvoltarea Programelor şi Administrarea Bazelor de Date I.

- 2008–2011: Programul PN-II IDEI, *DEPSYS – Modele şi Tehnici de Asigurare a Fiabilităţii, Siguranţei, Disponibilităţii şi Securităţii Sistemelor Distribuite de Mari Dimensiuni*. Director proiect: Prof. Dr. Ing. Valentin Cristea. Contribuţie personală: Coordonarea activităţilor de definire a funcţionalităţilor componentelor de monitorizare, planificare, management de date, securitate şi toleranţă la defecte, definire a mecanismelor de extindere pentru obţinerea unor nivele de încredere diferite şi elaborare a unor propuneri de optimizare pentru dezvoltarea aplicaţiilor de încredere.

- 2008–2010: Programul PARTENERIATE IN DOMENIILE PRIORITARE, *PEGAF – Platformă experimentală Grid pentru dezvoltarea de aplicaţii orientate pe fluxuri de activităţi cu alocarea dinamică a resurselor*, coordonator ICI Bucureşti. Director proiect: Dr. Ing. Gabriel Neagu. Contribuţie personală: Evaluarea şi propunerea de implementare a unei componente orientată spre planificarea şi managementul serviciilor implicate în fluxurile de activităţi ce descriu aplicaţiile ştiinţifice. Am propus de asemenea soluţii de integrare cu un mecanism de simulare a diferitelor politici şi modele de planificare cu scopul calibrării, testării şi evaluării. Simularea este o componentă importanta, oferind posibilitatea unei analize detaliate, înainte de integrarea în mediile reale. Interoperabilitatea cu gLite şi folosirea facilităţilor oferite pe partea de planificare vor fi luate în considerare dezvoltarea componentei de planificare. Componenta de planificare poate colabora, dacă este cazul cu alte sisteme de planificare locale sau globale din Grid

- 2008–2010: Programul 4 PARTENERIATE IN DOMENIILE PRIORITARE, Planul Naţional de Cercetare-Dezvoltare Şi Inovare II, *SERAFIMO - Platforma integrata pentru tranzactii si servicii electronice finanziar-bancare realizate folosind tehnologia disponibila pe dispozitivele mobile cu raspandire larga*, Coordonator UPB, Director Proiect: Prof.Dr.Ing. Valentin Cristea. Contribuţie personală: Identificarea tehnologiilor folosite in dezvoltarea proiectului, mai exact pentru tipurile de tranzacţii şi plăţi suportate; Proiectarea modelelor experimentale ale serviciilor sistemului integrat de servicii financiare mobile; Demonstrarea funcţionalităţilor modelului experimental; Proiectarea modului de servicii procesare tranzacţii.

- 2007–2008: Grant CNCSIS Tip A 154/2006, *Planificarea Descentralizată în Medii GRID Bazată pe Arhitectura Serviciilor WEB*. Director Proiect: Prof. Dr. Ing. Valentin Cristea. Contribuţie personală: Evaluarea prin simulare de diverşi algoritmi de planificare utilizaţi in prezent in Grid-ul global, analiza resurselor middleware existente in Gridul global, evaluarea algoritmilor de planificare descentralizata implementaţi cu ajutorul serviciilor web, elaborarea unor propuneri de îmbunătăţire a modelului de planificare, realizarea paginii web a proiectului.

- 2004–2006: Grant CNCSIS Tip A 288/2005, *Gestiunea resurselor şi Planificarea Activităţilor în Sistemele Distribuite Bazate pe Tehnologii Grid*. Director Proiect: Prof. Dr. Ing. Valentin Cristea. Contribuţie personală: O sinteză originală a soluţiilor pentru gestiunea resurselor utilizate în prezent şi a măsurilor de performanţă. Sinteza oferă o perspectiva asupra modelelor de gestiune a resurselor, din punct de vedere al arhitecturii acestora şi din punct de vedere al aplicabilităţii (la nivel de nod, la nivel de cluster sau inter-cluster) având în vedere caracteristicile sistemelor distribuite mari, de tip Grid. Sinteza consideră şi impactul pe care îl au diverse soluţii de monitorizare asupra calibării şi controlului automat al resurselor în sisteme distribuite mari de tip Grid.

- 2004–2006: Grant INFOSOC, *Monitorizarea distribuită a middleware-ului şi a aplicaţiilor din infrastructura Grid naţională*, acr. MON-I. Director Proiect: Prof. Dr. Ing. Valentin Cristea. Contribuţie personală: Evaluarea de soluţii de monitorizare a aplicaţiilor distribuite rulând în medii Grid, în particular în cadrul infrastructurii Grid naţionale. Implementarea unei soluţii de monitorizare a nodurilor din clusterele existente la nivel naţional în diverse organizaţii virtuale.

- 2005–2008: Grant INFOSOC, *MedioGRID – Prelucrarea grafică paralelă şi distribuită pe structura Grid a datelor geografice şi de mediu*, proiect CEEX 2005, MODUL-1, tip P-CD, coordonator UT Cluj. Director proiect: Dr. Ing. Gabriel Neagu. Contribuţie personală: Propunerea, evaluarea şi implementarea/adoptarea unor soluţii de monitorizare Grid pentru platforma MedioGRID, folosind sistemele MonALISA şi ApMon. De asemenea, am contribuit la dezvoltarea de algoritmi de prelucrare cooperativa in sisteme multi-agent.

- 2005–2008: Grant RELANSIN, *GridMOSI – Organizaţie virtuală în tehnologie Grid pentru modelare, simulare şi optimizare de înaltă performanţă*, Proiect CEEX, coordonator ICI Bucureşti. Director proiect: Prof. Dr. Ing. Gabriel Neagu. Contribuţie personală: La nivel naţional, în cadrul proiectului GridMOSI am adus contribuţii în metodele de optimizare a aplicaţiilor Grid în cadrul unei organizaţii virtuale având ca

scop găsirea celor mai bune soluții pe această tematică. A fost dezvoltată o soluție de modelare a sistemelor și aplicațiilor Grid, precum și instrumente specifice pentru evaluarea prin simularea și optimizarea performanțelor aplicațiilor rulând în medii Grid. Soluția de modelare prin simulare păstrează caracteristicile sistemelor Grid și permite evaluarea unei game largi de aplicații din domeniu, pornind de la protocoale și servicii pentru transferuri de date până la evaluarea unor soluții de toleranță la defecte, replicare, planificare în medii distribuite și chiar aplicații compuse din activități descentralizate.

- 2005–2008: Grant RELANSIN, *Monitorizarea distribuită a resurselor din infrastructura Grid națională*, acr. MON-R. Director Proiect: Prof. Dr. Ing. Nicolae Tapus. <u>Contribuție personală</u>: Evaluarea de soluții de monitorizare a resurselor distribuite existente în medii Grid, în particular în cadrul infrastructurii Grid naționale. Implementarea unei soluții de monitorizare a nodurilor din clusterele existente la nivel național în diverse organizații virtuale.

- 2005 – 2006: *EquiPoly, Creating a modern R&D infrastructure for advanced Grid computing and a testbed for various technologies*, Proiect suportat de IBM în Programul Equinox Scholar. <u>Contribuție personală</u>: Dezvoltarea infrastructurii de cercetare din catedra de Calculatoare și constituirea unei baze de cercetare pentru masteranzii si doctoranzii din catedra. Am lucrat la elaborator unei descrieri a diverselor proiecte în care infrastructura oferită de IBM va fi folosită în activitatea de cercetare. Este integrat acum în cluster-ul UPB si este folosit pentru testarea și dezvoltarea aplicațiilor din diverse proiecte de cercetare.

Contractele finanțate din sursă internațională:

- 2014-2017: ICT COST Action IC1406, "High-Performance Modelling and Simulation for Big Data Applications" (cHiPSet), proiect EU COST. <u>Contribuție personală</u>: Responsabil de rețeaua națională de cercetare și membru în Comitetul de Management al Acțiunii (responsabil de partenerul România, în cadrul Acțiunii).

- 2013-2017: ICT COST Action IC1303, "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE), proiect EU COST. <u>Contribuție personală</u>: Responsabil de rețeaua națională de cercetare și membru în Comitetul de Management al Acțiunii (responsabil de partenerul România, în cadrul Acțiunii).

- 2016-2020: COST Action CA15127, "Resilient communication services protecting end-user applications from disaster-based failures (RECODIS)". <u>Contribuție personală</u>: Reprezentant ca Membru Substituent.

- 2016-2020: COST Action CA15140, "Improving Applicability of Nature-Inspired Optimisation by Joining Theory and Practice (ImAppNIO)". <u>Contribuție personală</u>: Reprezentant ca Membru Substituent.

- 2016-2019: Data4Water - Excellence in Smart Data and Services for Supporting Water Management, H2020-TWINN-2015, Director: Prof.dr.ing. Mariana Mocanu (UPB). <u>Contribuție personală</u>: responsabil UPB pentru WP4, activități de tip scientific events, respectiv dezvoltarea de materiale livrabile pentru tehnologii de management a apei.

- 2013-2014: SideSTEP - Metode de Planificare pentru Sisteme Distribuite Dinamice: o Abordare Adaptiva (Scheduling Methods for Dynamic Distributed Systems: a self-* approach), International PNII - Cooperări Bilaterale, ID: PN-II-CT-RO-FR-2012-1-0084, Benef.: UEFISCDI. <u>Contribuție personală</u>: responsabil activității implementare componente pentru sisteme adaptive.

- 2013-2017: ICT COST Action IC1302, "Semantic keyword-based search on structured data sources" (KEYSTONE), proiect EU COST. <u>Contribuție personală</u>: Reprezentat ca Membru Substituent în Comitetul de Management al Acțiunii.

- 2010-2013: FP7-REGPOT-2010-1, *ERRIC -Empowering Romanian Research on Intelligent Information Technologies*, ID: 264207 (Director proiect: Prof.dr.ing. Adina Magda Florea). <u>Contribuție personală</u>: dezvoltarea domeniului sistemelor distribuite de mari dimensiuni în cadrul Facultății de Automatică și Calculatoare și alinierea acestuia la standardele Horizon 2020.

- 2008 – prezent: *FP7 - SEE-GRID-SCI eInfrastructure for regional eScience*, proiect de tip IP finanțat de Comisia Europeană sub Programul Cadru FP7, coordonator național ICI. <u>Contribuție personală</u>: Dezvoltarea unei platforme orientată spre planificarea și managementul serviciilor implicate în fluxurile de activități ce descriu aplicațiile științifice. Am propus de asemenea soluții de integrare cu un mecanism de simulare a diferitelor politici și modele de planificare cu scopul calibrării, testării și evaluării. Simularea este o componentă importantă, oferind posibilitatea unei analize detaliate, înainte de integrarea în mediile reale. Datorită faptului că platforma Grid de lucru este gLite, interoperabilitatea cu gLite și folosirea

facilităţilor oferite pe partea de planificare vor fi luate în considerare dezvoltarea componentei de planificare. Componenta de planificare poate colabora, dacă este cazul cu alte sisteme de planificare locale sau globale din Grid.

- 2008 – prezent: *FP6 EGEE-III: Enabling Grids for E-sciencE*, proiect finanţat de Comisia Europeană sub Programul Cadru FP6, coordonator naţional ICI. <u>Contribuţie personală</u>: Integrarea instrumentului de monitorizare MonALISA în infrastructura EGEE din diverse centre de cercetare din România (în cadrul laboratorului de sisteme distribuite şi a cluster-ului existent în cadrul Universităţii Politehnica Bucureşti, dar şi în cadrul Institutului de Fizică Nucleară s-au adoptat soluţii de control bazate pe MonALISA la a căror implementare am participat), precum şi adoptarea unor soluţii de control şi mentenanţă în scopul asigurării unor parametrii optimi de funcţionare în cazul sistemelor distribuite de tip Grid naţionale. Am realizat de asemenea o propunere pentru studiul infrastructurii EGEE în vederea realizării şi configurării unor componente pentru asigurarea disponibilităţii, toleranţei la defecte, scalabilităţii, accesabilităţii sistemelor distribuite de mari dimensiuni.

- 2005 – 2008: *FP6 EU-NCIT – NCIT leading to EU IST excellency*, proiectat finanţat de Comisia Europeana sub Programul Cadru FP6, coordonator NCIT-UPB. Director Proiect: Prof. Dr. Ing. Nicolae Ţăpuş. <u>Contribuţie personală</u>: În cadrul proiectului una din direcţiile de cercetare o reprezintă sistemele Grid. Am contribuit la elaborarea de documente privind stadiul actual în cercetare în domeniile de interes din Grid, am elaborat propuneri privind noi direcţii de cercetare, organizare de training-uri, şcoli de vară, participări la conferinţe, info-days, workshopuri pentru lărgirea domeniului de expertiză al membrilor proiectului.

- 2005 – 2008: *FP6 SEE-GRID-II South-Eastern European Grid-enabled eInfrastructure Development*, proiect finanţat de Comisia Europeană sub Programul Cadru FP6, coordonator naţional ICI. <u>Contribuţie personală</u>: Contribuţia mea s-a axat pe dezvoltarea unor componente de monitorizare pentru aplicaţii şi sisteme distribuite bazate pe infrastructura Grid din Sud-Estul Europei. De asemenea am avut contribuţii pe partea de documentaţie prin realizarea unui ghid despre gridificare a aplicaţiilor şi a dezvoltării de aplicaţii folosind MPI şi extensiile acestuia.

- 2005 – 2008: *FP6 EGEE-II: Enabling Grids for E-sciencE*, proiect finanţat de Comisia Europeană sub Programul Cadru FP6, coordonator naţional ICI. <u>Contribuţie personală</u>: Contribuţia majoră în cadrul acestui proiect a constat în sesiunile de instruire din cadrul şcolii de vară GridInitiative, ediţiile 2, 3 şi 4. Prezentările ţinute de mine au fost in domeniul sistemelor Grid şi monitorizării sistemelor distribuite de mari dimensiuni, precum şi realizarea de aplicaţii distribuite. Tot în cadrul acestor evenimente am coordonat echipe de studenţi în activităţi de învăţare a tehnologiilor şi proceselor specifice unor sisteme Grid precum gLite şi Globus.

Menţionez contribuţiile ştiinţifice şi de cercetare în domeniul sistemelor distribuite pe scară largă, cu contribuţii particulare în cercetarea/dezvoltarea de soluţii: aplicaţii mobile şi tehnologii inteligente pentru reducerea congestiilor în medii urbane şi a poluării, respectiv creşterea comfortului în trafic (proiecte precum MobiWay, TRANSYS), aplicaţii dependente de context (CAPIM), reţele oportuniste şi offloading de date mobile (SPRINT, SENSE, ON-SIDE, HYCCUPS), monitorizare (MonALISA), reţele de mare viteză (VINCI, FDT), aplicaţii Grid (EGEE, SEE-GRID), evaluarea prin modelare şi simulare (MONARC 2, VNSim, Sim2Car, MobEmu). Aceste contribuţii au condus la rezultate importante, demonstrând capacitatea de a aduce un aport ştiinţific în comunitatea mondială peste nivelul state-of-the-art. Ca urmare a acestor contribuţii, mi-a fot acordat prestigiosul premiu IBM Faculty Award, am beneficiat de un contract de cercetător din partea California Institute of Technology (Caltech, USA), sau de o bursă de doctorat din partea companiei Oracle. Printre alte premii, amintesc cele două premii CENIC Award, trei Best Paper Awards (în 2013, 2012 şi 2010) şi un Runner Up Award (în 2015).