Prof. univ. dr. ing. Adrian FLOREA

LISTA DE LUCRĂRI CONFORM CRITERIILOR C.N.A.T.D.C.U PENTRU DOMENIUL CALCULATOARE ȘI TEHNOLOGIA INFORMAȚIEI

1⁰ Teza de doctorat

T1. FLOREA Adrian, Creşterea performanţei arhitecturilor de calcul cu paralelism la nivelul instrucţiunilor prin metode predictive, Teză de doctorat, Domeniul Ştiinţa Calculatoarelor, Universitatea „Politehnica" Bucureşti, 200 pg., conducător ştiinţific prof. univ. dr. ing. Mircea PETRESCU, 2005.

2⁰ Cărţi publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective,

capitole teoretice redactate, sisteme de laborator funcţionale etc. (D1, D2 etc.), după caz, prin care se aduc contribuţii la asigurarea şi perfecţionarea activităţilor didactice/profesionale.

Ca1. FLOREA A., NEGHINĂ M., POPA V.M., POPESCU L., ȚINCU I. *FRAGMENTE DE ANALIZĂ. Curiozități Complexe. Grile Reale*, Editura Matrix ROM, Bucureşti, ISBN 978-606-25-0648-3, 2021 (242 pg.)

Ca2. FLOREA A., NEGHINĂ M., POPA V.M., POPESCU L., ȚINCU I. *FRAGMENTE DE ALGEBRĂ. Curiozități Complexe. Grile Reale*, Editura Matrix ROM, Bucureşti, ISBN 978-606-25-0632-2, 2021 (205 pg.)

Ca3. DICU P., **FLOREA A.**, POPA V.M., POPESCU L., ȚINCU I. *Culegere de probleme de matematică pentru bacalaureat şi pentru examenul de admitere în învățământul superior tehnic*, Editura Matrix ROM, Bucureşti, ISBN 978-606-25-0220-1, 2016 (235 pg.)

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Ris_65. FLOREA A., RADU C., CALBOREAN H., CRAPCIU A., GELLERT A., VINTAN L. *Understanding and Predicting Unbiased Branches in General-Purpose Applications*, Buletinul Institutului Politehnic Iasi, Tome LIII (LVII), fasc. 1-4, Section IV, Automation Control and Computer Science Section, Zentralblatt MATH indexed, pp. 97-112, ISSN 1220-2169, "Gh. Asachi" Technical University Iasi, 2007 (indexată Google Scholar, Zentralblatt MATH).

Ris_66. OANCEA M., GELLERT A., **FLOREA A.**, VINTAN L. *Analyzing Branch Prediction Contexts Influence*, Proceedings of Advanced Computer Architecture and Compilation for Embedded Systems, (ACACES 2006), ISBN 90 382 0981 9, L'Aquila, Italy, 2006 (indexată Google Scholar, Microsoft Academic Search).

Ris_67. FLOREA A., GELLERT A. *Memory Wall - A Critical Factor in Current High-Performance Microprocessors*, Science and Supercomputing in Europe, pp. 257-264, ISBN 978-88-86037-19-8, Barcelona, Spain, 2006 (indexată Google Scholar).

Ris_68. GELLERT A., **FLOREA A.** *Finding and Solving Difficult Predictable Branches*, Science and Supercomputing in Europe, pp. 265-271, ISBN 978-88-86037-19-8, Barcelona, Spain, 2006 (indexată Google Scholar).

Ris_69. VINTAN L., GELLERT A., **FLOREA A.** *Value Prediction Focalized on CPU Registers*, Advanced Computer Architecture and Compilation for Embedded Systems, (ACACES 2005), Academic Press, Ghent, Belgium ISBN 90 382 0802 2, 2005 (indexată Google Scholar).

Ris_70. FLOREA A., VINŢAN L., MIHU I.Z. *Understanding and Predicting Indirect Branch Behavior*, Studies in Informatics and Control, Vol.13, No. 1, pg. 61-82, ISSN: 1220-1766, National Institute for Research and Development in Informatics, Bucharest, March 2004 (indexată Google Scholar, Microsoft Academic Search, ArnetMiner).

Ris_71. VINŢAN L., GELLERT A., **FLOREA A.** *Register Value Prediction using Metapredictors*, Buletinul Institutului Politehnic din Iasi Tomul L (LIV), Fasc. 1-4, Publicat de Universitatea Tehnica Gh. Asachi, Iaşi Secţia IV: Automatică şi Calculatoare, pg. 109-122, ISSN 1220-2169, 2004 (Revistă indexată Zentralblatt MATH, GoogleScholar, recunoscută C.N.C.S.I.S, categoria B), articol selectat în urma prezentării la 8th International Symposium on Automatic Control and Computer Science (SACCS 2004), Iaşi, Romania October, 2004.

Ris_72. VINŢAN L., SBERA M., MIHU I.Z., **FLOREA A.** *An Alternative to Branch Prediction: Pre-Computed Branches*, ACM SIGARCH Computer Architecture News, Vol.31, Issue 3 (June), pg. 20-29, ISSN: 0163-5964, ACM Press, NY, USA, 2003 (indexată ACM DL, DBLP).

Ris_73. VINŢAN L., SBERA M., **FLOREA A.** *Pre-computed Branch Prediction*, Acta Universitatis Cibiniensis, Technical Series. Computer Science and Automatic Control, pg. 91-100, vol. XLIII, ISSN 1221-4949, Ed. Universităţii "L. Blaga" din Sibiu, 2001 (indexată Google Scholar).

Ris_74. SBERA M., VINŢAN L., **FLOREA A.** *Static and Dynamic Branch Prediction*, Acta Universitatis Cibiniensis, Technical Series. Computer Science and Automatic Control, pg. 81-86, vol. XLIII, ISSN 1221-4949, Ed. Universităţii "L. Blaga" din Sibiu, 2001 (indexată Google Scholar).

Ris_75. FLOREA A., VINŢAN L. *Simulating Some Advanced Processing Techniques into a Superscalar Architecture*, Acta Universitatis Cibiniensis, Technical Series. Computer Science and Automatic Control, Vol. XXXVIII, pp. 55-60, ISSN 1221-4949, Special Issue for the International Conference: Beyond 2000: Engineering Research Strategies, November 25-27, Sibiu, 1999, Ed. Universităţii "L. Blaga" din Sibiu, (indexată HEIDI - Katalog fur die Bibliotheken der Universitat Heidelberg, http://katalog.ub.uni-heidelberg.de/cgi-bin/titel.cgi?katkey=65410044 , GoogleScholar).

Ris_76. VINŢAN L., **FLOREA A.** *Investigating New Branch Prediction Through Quantitative Approach*, Acta Universitatis Cibiniensis, Technical Series. Computer Science and Automatic Control, Vol. XXXVIII, pp. 121-126, ISSN 1221-4949, Special Issue for the International Conference: Beyond 2000: Engineering Research Strategies, November 25-27, Sibiu, 1999, Ed. Universităţii "L. Blaga" din Sibiu, (indexată HEIDI - Katalog fur die Bibliotheken der Universitat Heidelberg, http://katalog.ub.uni-heidelberg.de/cgi-bin/titel.cgi?katkey=65410044, GoogleScholar).

4^0 Articole/studii publicate în volumele unor manifestări ştiinţifice: a) internaţionale recunoscute (cu ISSN sau ISBN) din ţară şi din străinătate (Vi) şi b) naţionale (Vn), inclusiv cotate ISI sau indexate în baze de date internaţionale.

a) Conferințe internaționale (altele decât ISI Proceedings) indexate BDI

Vis_1. Andrea Revesz, Mina Vasalou, **Adrian Florea**, Roger Gilabert, Leona Johansson Bunting, Ylva Hård af Segerstad, Ioan P Mihu, Cliff Parry, Laura Benton, *The effects of textual enhancement on development in L2 derivational morphology: A multi-site longitudinal study*, 2020 conference of the American Association for Applied Linguistics (AAAL), March 29, 2020, Denver, USA.

Vis_2. BERNTZEN L., **FLOREA A.**, MOLDER C., BOUHMALA N., *A Strategy for Drone Traffic Planning - Dynamic Flight-paths for Drones in Smart Cities*, The Eighth International Conference on Smart Cities, Systems, Devices and Technologies, (SMART 2019), July 28, 2019 to August 02, 2019 - Nice, France (indexată ThinkMind Digital Library, GoogleScholar).

Vis_3. SIMONA-DANIELA MARCU, **ADRIAN FLOREA**, *Smart parking system - another way of sharing economy provided by private institutions*, Thirteenth International Conference on Digital Information Management (ICDIM 2018), Berlin, Germany, 24-26 September, 2018, ISBN: 978-1-5386-5244-2/18, ©2018 IEEE.

Vis_4. SERGIU STEFAN NICOLAESCU, HORATIU CONSTANTIN PALADE, CLAUDIU VASILE KIFOR, **ADRIAN FLOREA**, Collaborative Platform for Transferring Knowledge from University to Industry - A Bridge Grant Case Study, International Engineering and Technology Education Conference (IETEC'17), 4 - 6 December 2017, Hanoi, Vietnam.

Vis_5. FLOREA A., BERNTZEN L., JOHANNESSEN M.R., STOICA D., NAICU I.S., and CAZAN V., *Low Cost Mobile Embedded System for Air Quality Monitoring: Air quality real-time monitoring in order to preserve citizens' health*, The Sixth International Conference on Smart Cities, Systems, Devices and Technologies, (SMART 2017), June 24 - 29, 2017, Venice, Italy (indexată ThinkMind Digital Library, GoogleScholar) – *Best Paper Award* (http://www.iaria.org/conferences2017/awardsSMART17/smart2017_a3.pdf).

Vis_6. BERNTZEN L., JOHANNESSEN M.R., **FLOREA A.**, *Sensors and the Smart City*, The Fifth International Conference on Smart Cities, Systems, Devices and Technologies, (SMART 2016), May 22 - 26, 2016, Valencia, Spain (indexată ThinkMind Digital Library).

Vis_7. FLOREA A., ANGHEL T., FLOREA D. *Testing Assistant – An Interactive Training Tool for Evaluating Students Knowledge*, International Conference on Embedding Innovation in Teaching and Management of Higher Education (ICITM 2009), organized by Universiti Teknologi MARA (UiTM) Terengganu, Shah Alam, Selangor, Malaysia, pp. 87 (1-13), December, 2009, PST Enterprise SDN BHD Publishing Hall, ISBN 978-983-41527-1-0 (indexată Microsoft Academic Search, GoogleScholar).

Vis_8. ANGHEL T., FLOREA D., **FLOREA A.** *Encouraging student's learning potential with Testing Assistant*, The 7th National Conference for Virtual Learning - Virtual Reality, News Technologies in Education and Research, Models & Methodologies, Technologies, Software Solutions, 2009, pp. 136-143, Iași, Romania (indexată GoogleScholar).

Vis_9. VINŢAN L., **FLOREA A.**, GELLERT A. *Forcing some architectural ceilings of the actual processor paradigm*, The 3rd National Conference of Romanian Academy of Technical Sciences – Romanian Engineering: Past, Present and Future, pp. 233-246, Mediamira Press, ISBN 978-973-713-223-9, Cluj Napoca, November, 2008 (indexată GoogleScholar).

Vis_10. FLOREA A., C. RADU, H. CALBOREAN, A. CRAPCIU, A. GELLERT, L. VINTAN *Designing an Advanced Simulator for Unbiased Branches' Prediction*, Proceedings of 9th International Symposium on Automatic Control and Computer Science, pp. 48 (1-6), ISSN 1843-665X, Iasi, Noiembrie, 2007 (indexată Microsoft Academic Search, GoogleScholar).

Vis_11. FLOREA A., RADU C., CALBOREAN H., CRAPCIU A., GELLERT A. *An Interactive Graphical Trace-Driven Simulator for Teaching Branch Prediction in Computer Architecture*, The 6th EUROSIM Congress on Modelling and Simulation (EUROSIM 2007), ISBN 978-3-901608-32-2, pp. 58 (1-7), September 9-13, Ljubljana, Slovenia 2007, special session: Education in Simulation / Simulation in Education I (indexată Google Scholar, FreeSearch dblp, CiteSeerX, Microsoft Academic Search).

Vis_12. FLOREA A., VINŢAN L., SIMA D. *Understanding Value Prediction through Complex Simulations*, Transactions on Automatic Control and Computer Science, Special Issue Dedicated to 5th International Conf. on Technical Informatics (CONTI '2002), Tom 47(61), No 2, pp. 93-98, ISSN 1224-600X, University "Politehnica" of Timisoara, Romania, 2002 (indexată CiteSeerX, Google Scholar).

Vis_13. FLOREA A., VINŢAN L. *Simulating an Advanced Superscalar Architecture*, Proceedings of the Second Symposium "Extra Skills for Young Engineers ESYE 2001", pp. 41-44, ISBN 86-435-0440-8, Maribor, Slovenia, October 17-19, 2001 (organized by IEEE Slovenia Section), publisher - University of Maribor IEEE Student Branch Maribor (indexată WorldCat, GoogleScholar).

Vis_14. VINŢAN L., **FLOREA A.** *Cross-Fertilisation between Computer Architecture and other Computer Science Fields*, Proceedings of The 13th International Conference on Control Systems and Computer Science (CSCS 13), pp. 456-461, ISBN 973-85237-1-0, Bucharest, Romania, May, 2001 (indexată GoogleScholar).

Vis_15. FLOREA A., EGAN C. *Reducing the Tehnological Gap between an Advanced Processor and the Memory Hierarchy System (Part1,2)*, Transactions on Automatic Control and Computer Science, Special Issue Dedicated to Fourth International Conf. on Technical Informatics (CONTI'2000), Volume 45 (59), No 4, pp. 65-76, ISSN 1224-600X, University "Politehnica" of Timisoara, Romania, 2000 (indexată CiteSeerX, GoogleScholar).

Vis_16. VINŢAN L., **FLOREA A.** *Branch Prediction: A Criticism and a Novel Scheme*, International Symposium on Systems Theory, Xth edition; automation, computers, electronics - SINTES 10, pp. C178-C184, ISBN 973-98836-6-4, May 25-26, Craiova, 2000 (indexată CiteSeerX, GoogleScholar).

Vis_17. VINŢAN L., **FLOREA A.** *A New Branch Prediction Approach Using Neural Networks*, International Symposium on Systems Theory, Xth edition; automation, computers, electronics -

SINTES 10, pp. C185-C191, ISBN 973-98836-6-4, May 25-26, Craiova, 2000 (indexată CiteSeerX, GoogleScholar).

Vis_18. STEVEN G.B., VINŢAN L., **FLOREA A.** *Advanced Techniques for Improving Processor Performance in a Superscalar Architecture*, 12th International Conference on Control Systems and Computer Science, CSCS 12, pp. 226-231, May 26-29, Bucharest, 1999 (indexată CiteSeerX, GoogleScholar).

b) lucrări (studii, creaţii artistice etc.) publicate în volumele unor manifestări ştiinţifice (sesiuni de comunicări, conferinţe etc.) internaţionale recunoscute (cu ISSN sau ISBN)

Vis_19. BARBU P.GH., **FLOREA A.** (teacher coordinator), *Implementing a modular, extensible, yet small and cross-platform HTTP daemon*, Fourth International Students Conference on Informatics Imagination, Creativity, Design, Development, ICDD 2014, pp. 26-39, ISSN 2069-964X, May 15-17, Sibiu, Romania.

Vis_20. KONNERTH G., FLOREA D., **FLOREA A.** (teacher coordinator), *Computing Functions on Android*, Fourth International Students Conference on Informatics Imagination, Creativity, Design, Development, ICDD 2014, pp. 118-127, ISSN 2069-964X, May 15-17, Sibiu, Romania.

Vis_21. SILIVĂȘAN E., FLOREA D., **FLOREA A.** (teacher coordinator), *Tursib4iPhone. Public transport in Sibiu made easy*, Fourth International Students Conference on Informatics Imagination, Creativity, Design, Development, ICDD 2014, pp. 184-189, ISSN 2069-964X, May 15-17, Sibiu, Romania.

Vis_22. FLOREA D., **FLOREA A.** *Matching Game*, Proceedings of the International Symposium "Creativity and technology in addressing the educational process", Hunedoara, România, June, 2013, pp. 1-4, ISBN 978-973-0-11754-7.

4^0 Proiecte de cercetare-dezvoltare-inovare: a) obţinute prin competiţie pe bază de contract/grant în ţară / străinătate (Pn-naţionale, Pi-internaţionale); b) alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz.

a) proiecte de cercetare pe bază de contract/granturi internaţionale;

Pi_1. FLOREA A. "EUN Partnership / EUROPEAN SCHOOLNET: TEACHING INTERNET SAFETY", REF – 2010/TIS/T10/FLOREA, Tema: *Social networking - use by teachers (points to watch e.g. privacy, photos...)*. 2010, finanţare EUN Partnership AISBL, Belgia, **– Teacher Coordinator**.

Pi_2. FLOREA A. *Increasing the Performance of Instruction Level Parallelism Processors through Predictive Methods*, HPC-EUROPA (RII3-CT-2003-506079), Comunitatea Europeană (Research Infrastructure Action), program FP6 "Structuring the European Research Area"), 2006, Barcelona Supercomputing Centre, University of Catalunya, Barcelona, Spain,– **Project director**.

Pi_3. FLOREA A. „*Computer vision algorithm for people counting system*", Contract de prestări servicii cercetare nr. 2167 din 18.05.2016 dintre Universitatea 'Lucian Blaga' din Sibiu și Tecnitempo - Control and Business Management, Ltd Lisabona, Portugalia în calitate de Beneficiar, Perioada: 2016-2017, Buget 8750 Euro, – **Director proiect**.

Pi_4. FLOREA A. *„alfa-PRESENTER",* Contract prestări servicii cercetare nr. 2245/12.06.2020 dintre Universitatea Lucian Blaga din Sibiu și alfa-Horizont GmbH & Co. KG, cu sediul în

Raiffeisenstr. 10, DE-78658 Zimmern ob Rottweil, Germania, în calitate de Beneficiar, Perioada: 15.06.2020-15.06.2021, Buget 3950 Euro, – Coordonator proiect / Manager proiect informatic.

Pi_5. VINŢAN L. (coordonator general proiect) / **FLOREA A. (membru/secretar local)**, grant internațional Phare; - Proiect international TEMPUS JEP AC 13559/1998 "Retraining Support for Small and Medium Enterprises", perioada 1998 - 2000, in valoare de peste 200.000 ECU (cca. 70.000 ECU la ULB Sibiu), in colaborare cu universitati din: Bucuresti ("Politehnica"), Brasov ("Transilvania"), Anglia (De Montfort, Leicester), Irlanda (Galway), Spania (Autonoma Barcelona) si Germania (Karlsruhe)

Pi_9. **FLOREA A. (Technical Coordinator)**, "*The FoF-Designer: Digital Design Skills for Factories of the Future*", Project Nr. 601089-EPP-1-2018-1-RO-EPPKA2-KA, EACEA,Erasmus+ strategic project, Knowledge Alliances, Perioada: 01.01.2019-31.12.2021, Buget total 999,259 Euro (ULBS 135,858 Euro)

Pi_10. *iREAD - Infrastructure and integrated tools for personalized learning of reading skill*, Proposal number: 731724, H2020-ICT-2016-2017, Type of action: IA – innovation action, Topic: ICT-22-2016 - Technologies for Learning and Skills, Proiect HORIZON 2020, 2017-2021, **Florea Adrian - ULBS team member**, Mihu P. Ioan – director proiect ULBS.

b) proiecte în cadrul unor programe de cercetare internaţionale;

Pi_6. *High Performance and Embedded Architecture and Compilation* (HiPEAC-3), FP7 project no. 287759, 2012-2016, director Koen de Boschere (Ghent Univ., Belgium), Buget 3.808.245 Euro, **– Affiliate member** (director Koen de Boschere, Ghent University, Belgium).

Pi_7. *Energy efficiency in large scale distributed systems*, program european COST IC0804 (http://www.cost804.org/), COST-TS-ECOST-TRAINING_SCHOOL-IC0804-240412-014601, cu sprijinul Yahoo Research (Spain), University of Cantabria (Spain), University of Pisa (Italy), Copenhagen Business School (Denmark) and Rotterdam School of Management (Netherland) şi organizat de către Mathematics and Computer Science Department, University of Balearic Islands, Palma de Mallorca, Spain, 2012 – **Project member**.

Pi_8. *Energy efficiency in large scale distributed systems*, program european COST IC0804 (http://www.cost804.org/), COST-TS-ECOST-TRAINING_SCHOOL-IC0804-080311-004247, cu sprijinul IBM Research Zurich (Elvetia), Ecole Normale Supérieure de Lyon (France) şi organizat de către Departamentul Electronică şi Calculatoare, Facultatea de Inginerie Electrică şi Ştiinţa Calculatoarelor, Universitatea "Transilvania" din Brasov, Poiana Braşov, România. 2011, – **Project member**.

Pi_11. *Selective Load Value Prediction*, **grant de infrastructură** finanțat (suportat) de High-Performance Computing Infrastructure for South East Europe's Research Communities, HP-SEE Consortium (01.06.2013-31.08.2013), **project no. Fast Track Access to HP-SEE Resources 19757 (FT19757) 13/03/04** - http://wiki.hp-see.eu/index.php/SLVP pentru rularea de aplicaţii distribuite pe sisteme avansate de calcul aferente infrastructurii HP-SEE (24 core (nodes=2:ppn=12) cu 4GB/core), finalizat cu Technical Report – **Director proiect**.

c) proiecte de cercetare pe bază de contract/granturi naţionale;

Pn_1. *A Mobile Platform for Environmental Monitoring*, Grant ANPCDEFP nr. 1707/17.06.2016 - Small size bilateral cooperation projects, 15110 Euro (evaluat la 88p. din 100p.), Contract nr. 3/07.07.2016; COD: 16-SEE-PCB-RO SIBIU01/01, 2016-2017, - **Coordonator Proiect**.

Pn_2. **FLOREA A.**, "*Modernizing agricultural practice using Internet of Things*", Grant ANPCDEFP 20-COP-0019 ESAYEP nr. F-SEE-026/06.2021 - EEA Grants, 87,547 Euro (evaluat la 101p. Locul 3 din 21, primele 5 finantate), - Coordonator Proiect.

Pn_3. **FLOREA A.** (**coordonator proiect din partea ULBS**), "*Schimb de bune practici in domeniul mediului pentru cresterea calitatii vietii in orase inteligente*"/ "*Exchange of good practices in environmental domain for improving the quality of life in smart cities*", EEA Grants Fund for Bilateral Relations at the level of Programme RO "Adaptation to Climate changes", Beneficiary Environmental Protection Agency Sibiu (EPA), Programme Operator – Environment Ministery, 2017, Buget 10,000 Euro

Pn_4. *Cercetări privind optimizarea parametrilor procesului de solicitare mecanică a ansamblurilor sudate de țevi și fitinguri din polietilenă de înaltă densitate*, Contract de prestări servicii cercetare nr. 2969 din 30.07.2015 dintre Universitatea 'Lucian Blaga' din Sibiu și Proconfort S.R.L Sibiu în calitate de Beneficiar, Buget 11500 Lei, **– Director proiect**.

Pn_5. *Cercetări privind optimizarea parametrilor procesului de injecție în vederea reducerii costurilor cu rebuturile și timpul de reglare al parametrilor de injecție la startul comenzii urmărind creșterea competitivității economice, prin metode de calcul evolutiv*, Contract de prestări servicii cercetare nr. 3105 din 20.08.2015 dintre Universitatea 'Lucian Blaga' din Sibiu și S.C. Phoenix Mecano Plastic S.R.L. Sibiu în calitate de Beneficiar, Buget 10000 Lei, **– Director proiect**.

Pn_6. *Prestarea de servicii de cercetare, consultanţă tehnică şi pregătire profesională referitoare la dezvoltarea de aplicaţii integrate hardware-software, de testare embedded software și infotainment systems în domeniul automotive*, Contract de prestări servicii cercetare nr. 3254 din 31.08.2015 dintre Universitatea 'Lucian Blaga' din Sibiu și S.C. ProIT S.R.L Sibiu în calitate de Beneficiar, Buget 11008 Lei, **– Director proiect**.

Pn_7. **FLOREA A.**, *Technical consulting and professional trainings from academic professors toward industry staff*, Provider ULBS, Beneficiary Marquardt Schaltsysteme SRL Sibiu, Nr. 1142 / 23.03.2021, Budget 933,95 EUR, - **Coordonator Proiect**.

Pn_8. **FLOREA A.**, *Sponsorship contract for equipping the Digital Transformation Laboratory - room IM 311 within the Faculty of Engineering*, Provider Marquardt Schaltsysteme SRL Sibiu, Beneficiary ULBS, Nr. 1580 / 30.03.2021, Budget 3,273.10 EUR, - **Coordonator Proiect**.

Pn_9. *Cercetare critică privind predicţia ramificaţiilor; evaluări cantitative pe bază de simulare*, Grant M.C.T.- 4086/26.11.1998 (continuare pe 1999) – 35. mil. Lei, **– Membru în colectivul de cercetare;**

Pn_10. *Investigatii arhitecturale cu privire la modelarea si simularea unor concepte novatoare de procesare*, implementabile in microprocesoarele avansate, Grant CNCSIS, cod 8/2000 – 25 mil. Lei, **– Membru în colectivul de cercetare;**

Pn_11. *Abordări integratoare în arhitecturile de procesare cu paralelism la nivel de instrucţiuni (I)*, Grant ANSTI – 6229 (B18) /10.11.2000 - 25 mil. Lei, **– Membru în colectivul de cercetare**;

Pn_12. *Cercetări cu privire la elaborarea unei arhitecturi neconventionale de procesare de mare performanţă*, Grant CNCSIS nr.34965, cod 8/ 2001 – 40,05 mil. Lei **– Membru în colectivul de cercetare**;

Pn_13. *Abordări integratoare în arhitecturile de procesare cu paralelism la nivel de instrucţiuni (II)*, Grant ANSTI 6229, CG 12/05.06.2001 - 30 mil. Lei, **– Membru în colectivul de cercetare**;

Pn_14. *Îmbunătăţiri ale paradigmei arhitecturilor superscalare prin reutilizarea si predictia valorilor instructiunilor*, Grant CNCSIS cod 71/2004 – 360 mil. Lei, **– Membru în colectivul de cercetare**;

Pn_15. *Sistem de suport al deciziilor de grup în mediul academic şi al administraţiei publice – premisă a descentralizării şi democratizării sistemului decizional*, Proiect nr. 23 CeexI03/ 2005, P-CD, Nr. eCD1, Effective Decisions, 2005, 129735 RON, **– Membru în colectivul de cercetare**;

Pn_16. *Microarhitectura superscalara avansata cu procesari paralele si predictiv – speculative*, Grant CNCSIS tip A, cod 39, 2007/2008 (2 ani), 175000 RON, – **Membru în colectivul de cercetare**;

Pn_17. ZAHARIA S. E. (manager proiect) / FLOREA A. (Expert pe termen scurt pentru programul de studii Ingineria Sistemelor Multimedia) – „Dezvoltarea unui sistem operaţional al calificărilor din învăţământul superior din România – DOCIS (2009-2011, aproximativ 17 milioane RON)", Proiect DOCIS, cod 1622, contract POSDRU /2/1.2/S/2, proiect strategic finanţat de Fondul Social European şi Guvernul României (Agenţia ACPART) prin Programul Operaţional Sectorial Dezvoltarea Resurselor Umane POS DRU 2007 – 2013.

Pn_18. VLAICU A. (manager proiect) / FLOREA A. (Expert pe termen scurt Formator CS5 - Universitatea "Lucian Blaga" din Sibiu) – „Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și inginerești – DidaTec (Aprilie – Decembrie 2013, aproximativ 8800 RON, Contract individual de munca cu timp parţial Nr. 32851/08.04.2013 și Nr. 33940/31.10.2013)", Proiect DidaTec, contract POSDRU /87/1.3/S/60891, proiect strategic finanţat de Fondul Social European şi Guvernul României prin Programul Operaţional Sectorial Dezvoltarea Resurselor Umane POS DRU 2007 – 2013.

Pn_19. COFARU N. (manager proiect) / FLOREA A. (Expert activități cu GT - Universitatea "Lucian Blaga" din Sibiu) – Proiect „Insertie activa pe piata muncii prin FORmare profesionala inovativa in domeniul INGineriei – FORMING" – Partener 3 – ULBSIBIU, 2014 – 2015, aproximativ 36000 RON, contract POSDRU /125/5.1/S/134003, proiect strategic finanţat de Fondul Social European şi Guvernul României prin Programul Operaţional Sectorial Dezvoltarea Resurselor Umane POS DRU 2007 – 2013.

Pn_20. *Optimizarea tehnologiilor ICT pentru evaluarea și valorificarea Capitalului Intelectual în centrele de Cercetare & Dezvoltare ale Continental Automotive Systems prin procesare Big Data*, Bridge Grant, PN-III-P2-2.1-BG-2016-0284 UEFISCDI, 2016-2018, Buget 456861 Lei, **FLOREA A. (membru proiect - Specialist integrare soluţii)**, Kifor V. Claudiu (director proiect).

d) lucrări de cercetare finalizate prin raport de cercetare;

Pn_21. *Raport intermediar de activitate de cercetare (01.12.2015)* la contractul de prestări servicii cercetare nr. 2969 din 30.07.2015 dintre Universitatea 'Lucian Blaga' din Sibiu şi Proconfort S.R.L Sibiu *„Studii teoretice şi experimentale asupra comportării mecanice a ansamblurilor sudate de ţevi şi fitinguri din polietilenă de înaltă densitate",* valoare contract: 11500 RON, – **Director proiect**.

Pn_22. *Sinteza de cercetare* (20.10.2006) la grantul de cercetare *Îmbunătăţiri ale paradigmei arhitecturilor superscalare prin reutilizarea şi predicţia valorilor instrucţiunilor*, Grant CNCSIS cod 71/2004, 360 mil. Lei, **– Membru în colectivul de cercetare**.

e) propuneri de proiecte în cadrul unor programe de cercetare internaţionale nefinanţate;

Pi_12. *Profile-driven intelligent personalized system for reading development*, Propunere de PROIECT nefinanțată – HORIZON 2020 Call: H2020-ICT-2015 Topic: ICT-20-2015 Type of action: RIA Proposal number: 687190 Proposal acronym: PROFILE, **– ULBS team member**.

f) propuneri de proiecte în cadrul unor programe de cercetare naţionale nefinanţate;

Pn_23. *Atelier mobil de programare: sa învățăm jucându-ne!* (Buget 27000 Lei), propunere de Grant pentru Educație (12.12.2015), Fundația Progres prin Educație (http://progresprineducatie.ro/granturi-pentru-educatie/), Camera de Comerț și Industrie

Româno-Germană, Coaliția Națională pentru modernizarea României, Comisia Națională a României pentru UNESCO, Deutscher Wirkschaftklub Kronstadt, Federația Română a Asociațiilor, Centrelor și cluburilor UNESCO, – **Director proiect**. Numărul final al conceptelor de proiect depuse a fost de 243. În Faza a 2-a de selecție s-au calificat 22 de proiecte (9%) din care proiectul propus de mine a fost clasat al 5-lea (http://progresprineducatie.ro/granturi-pentru-educatie/granturi-pentru-educatie-etapa-2/).

Pn_24. *Sistem inteligent pentru detectia si evaluarea conexiunilor Internet la nivel national*, Program Parteneriate - Competitia 2013, Domeniul 1 - Tehnologia informatiei si comunicatii, PN-II-PT-PCCA-2013-4-0193, Beneficiar ULBS, parteneri Universitatea Politehnica din Bucuresti; Industrial Software S.R.L.; Income Technology S.R.L.; Autoritatea nationala pentru administrare si reglementare in comunicatii; Institutul national de cercetare-dezvoltare pentru optoelectronica INOE 2000 INCD, **Coordinator - Key persons**. Proiectul a fost evaluat la 78 puncte, pozitia 93 din 249 de proiecte (la egalitate cu proiectele de pe pozitiile 87 - 99). S-au finantat primele 39 de proiecte pana la punctajul 86.

Pn_25. *Developing a High-Granularity Air Quality Monitoring System Based on a Mesh Network and Low Cost Components*, Propunere Grant The Romanian - EEA Research Programme 2018 Call EEA-RO-NO-2018-0168, depusă în 01.10.2018, **Florea Adrian – Director proiect.** Punctajul obtinut este de 11.5p din 15p posibile. Cel mai mare punctaj obtinut de proiectele castigatoare a fost de 14.5p.

Pn_26. *Creşterea performanţei arhitecturilor de calcul cu paralelism la nivelul instrucţiunilor prin predicţia salturilor şi apelurilor indirecte*, Propunere Grant UEFISCDI competitia AT, 2007 (http://uefiscdi.gov.ro/userfiles/file/granturi/2007/proces%20de%20evaluare%20-%20tip%20at%202007/COMISIA_2_AT_NOI_REZULTATE_FINALE.htm) - **Director proiect**. Proiectul a fost evaluat cu 87p si finantarea s-a facut cu 89.67p. proiectul meu fiind a 5-a rezervă.

Pn_27. *Optimizarea tehnologiilor ICT pentru Marquardt GmbH prin dezvoltarea unei tranzacții SAP de planificare a producției, procesare algoritmică și transfer de cunoaștere*, Propunere Grant PNCDI III, Programul 2, Subprogramul 2.1 – Transfer de cunoaștere la agentul economic „Bridge Grant", **depusă în 10.06.2016,** Florea Adrian **– Director proiect**. Proiectul a fost evaluat cu 81p si finantarea s-a facut cu 85p. Au fost finantate primele 27 de proiecte. Proiectul meu a fost pe locul 36 din 98 de proiecte evaluate.

g) propuneri de proiecte în cadrul unor programe de cercetare naţionale depuse în aşteptarea rezultatului;

Pn_28. *Advanced technology development and pre-prototype validation for the Workforce Analytics Software Platform*, Propunere Grant PN-III-P2-2.1-PED-2021-2032, PNCDI III - Programme 2, Subprogramme 2.1 – Competitivitate prin cercetare, dezvoltare și inovare – Proiect experimental – demonstrativ, Total Budget 729.500 Lei, **depusă în 21.09.2021,** Florea Adrian **– Research member**; Kifor V. Claudiu (director proiect).

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