

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, Creșterea performanței arhitecturilor de calcul cu paralelism la nivelul instrucțiunilor prin metode predictive, Teză de doctorat, Domeniul Știința Calculatoarelor, Universitatea „Politehnica” București, 200 pg., conducător științific prof. univ. dr. ing. Mircea PETRESCU, 2005.

2⁰ Cărți publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc. (D1, D2 etc.), după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.

Ca1. FLOREA A., NEGHINĂ M., POPA V.M., POPESCU L., ȚINCU I. *FRAGMENTE DE ANALIZĂ. Curiozități Complexe. Grile Reale*, Editura Matrix ROM, București, 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, București, 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 și pentru examenul de admitere în învățământul superior tehnic*, Editura Matrix ROM, București, ISBN 978-606-25-0220-1, 2016 (235 pg.)

Ca4. GELLERT A., VINȚAN N. L., FLOREA, A. *A Systematic Approach to Predict Unbiased Branches, (in English)* "Lucian Blaga" University Press, ISBN 978-973-739-516-0, Sibiu, 2007 (110 pg.).

Ca5. FLOREA A. *Introducere în Știința și Ingineria Calculatoarelor. Interfața Hardware – Software*, Editura Matrix ROM, București, ISBN 978-973-755-264-8, 2007 (313 pg.).

Ca6. FLOREA A. *Predicția dinamică a valorilor în microprocesoarele generației următoare*, Editura Matrix ROM, București, ISBN 973-685-980-0, 2005 (413 pg. + CD atasat).

Ca7. FLOREA A., VINȚAN N. L. *Simularea și optimizarea arhitecturilor de calcul în aplicații practice*, Editura Matrix ROM, București, ISBN 973-685-605-4, 2003 (443 pg. + CD atasat). Cartea a



obtinut Premiul "Tudor Tanasescu" al Academiei Romane pe anul 2003, decernat in 23 decembrie 2005.

Ca8. VINȚAN N. L., **FLOREA A.** *Microarhitecturi de procesare a informației*, Editura Tehnică, București, ISBN 973-31-1551-7, 2000 (312 pg.).

Ca9. VINȚAN N. L., **FLOREA, A.** *Sisteme cu microprocesoare - aplicații*, Editura Universității "L. Blaga" din Sibiu, ISBN 973-9410-46-4, Sibiu, 1999 (245 pg.).

3^o Articole/studii publicate: a) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță (Ris); b) în alte reviste de specialitate de circulație internațională (Rio); c) în reviste din țară recunoscute C.N.C.S.I.S. (Rns); d) în alte reviste de specialitate de circulație națională (Rno).

a) Reviste cotate ISI

- Ris_1.** Gellert A., Fiore U., **Florea A.**, Chis R., Palmieri F., Forecasting Electricity Consumption and Production in Smart Homes through Statistical Methods, *Sustainable Cities and Society*, 2021, 103426, ISSN 2210-6707, <https://doi.org/10.1016/j.scs.2021.103426>, <https://www.sciencedirect.com/science/article/pii/S2210670721006995>
- Ris_2.** Fiore, U.; **Florea, A.**; Kifor, C.V.; Zanetti, P. Digitization, Epistemic Proximity, and the Education System: Insights from a Bibliometric Analysis. *J. Risk Financial Manag.* 2021, 14, 267. <https://doi.org/10.3390/jrfm14060267>
- Ris_3.** Révész Andrea, Bunting Leona, **Florea Adrian**, Gilabert Roger, Hård af Segerstad Ylva. Miha Ioan, P.Parry Cliff, Benton Laura, Vasalou Asimina, *The Effects of Multiple-Exposure Textual Enhancement on Child L2 Learners' Development in Derivational Morphology: A Multi-Site Study*, TESOL Quarterly, TESOL J, ISSN 0039-8322, <https://doi.org/10.1002/tesq.3036>.
- Ris_4.** Sipos, A.; **Florea, A.**; Arsin, M.; Fiore, U. Using Neural Networks to Obtain Indirect Information about the State Variables in an Alcoholic Fermentation Process. *Processes* 2021, 9, 74.
- Ris_5.** Grecu, V.; Ciobotea, R.-I.-G.; **Florea, A.** *Software Application for Organizational Sustainability Performance Assessment*. *Sustainability* 2020, 12, 4435.
- Ris_6.** Sergiu Stefan Nicolaescu, **Adrian Florea**, Claudiu Vasile Kifor, Ugo Fiore, Nicolae Cocan, Ilie Receu, Paolo Zanetti, *Human capital evaluation in knowledge-based organizations based on big data analytics*, *Future Generation Computer Systems*, 2019, ISSN 0167-739X, <https://doi.org/10.1016/j.future.2019.09.048>, Volume 111, October 2020, Pages 654-667.
- Ris_7.** FIORE U., **FLOREA A.**, PÉREZ LECHUGA G., *An Interdisciplinary Review of Smart Vehicular Traffic and its Applications and Challenges*. *Journal of Sensor and Actuator Networks*. 2019; 8(1):13.
- Ris_8.** GELLERT A., **FLOREA A.**, FIORE U., PALMIERI F., ZANETTI P., *A study on forecasting electricity production and consumption in smart cities and factories*, *International Journal of Information Management*, 2019, ISSN 0268-4012, <https://doi.org/10.1016/j.ijinfomgt.2019.01.006> (journal ranked 1 from 88, **Q1**, category INFORMATION SCIENCE & LIBRARY SCIENCE, IF 4.516 in 2017).
- Ris_9.** GELLERT A., **FLOREA A.**, FIORE U., ZANETTI P., VINTAN L., *Performance and Energy Optimisation in CPUs through Fuzzy Knowledge Representation*, *Information Sciences*, February 2019, Vol. 476, 375-391 Elsevier, Available online 12 March 2018, ISSN 0020-0255, <https://doi.org/10.1016/j.ins.2018.03.029>, (journal ranked as 7 from 146, **Q1**, category



- Computer Science, Information Systems, IF 4.832 in 2016), (<https://www.sciencedirect.com/science/article/pii/S0020025518302068>)
- Ris_10.** CHIȘ, R., FLOREA, A., BUDULECI, C., VINȚAN, L., *Multi-objective optimization for an enhanced multi-core SNIPER simulator*, Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science, Volume 19, Number 1/2018, pp. 85–93 (journal ranked as 23 from 64, **Q2**, category Multidisciplinary Sciences, IF 1.623 in 2016), <http://www.acad.ro/sectii2002/proceedings/doc2018-1/12.pdf> .
- Ris_11.** OLIVEIRA-LIMA J.A., MORAIS R., MARTINS J.F., FLOREA A., LIMA C. *Load forecast on intelligent buildings based on temporary occupancy monitoring*, Energy and Buildings, Volume 116, 15 March 2016, Pages 512–521, Elsevier, Received date: 4-5-2015, Revised date: 20-1-2016, Accepted date: 21-1-2016, Available online 22 January 2016, DOI 10.1016/j.enbuild.2016.01.028, <http://www.sciencedirect.com/science/article/pii/S0378778816300287> . (Factor de impact: 2.884 pe 2014, 5-Year Impact Factor: 3.617, SRI=2.058 octombrie 2015 <http://uefiscdi.gov.ro/userfiles/file/CENAPOSS/RIS2015.pdf>). Menționez că în clasificarea UEFISCDI, revista Energy and Buildings apare pe locul 6 din zona roșie aferentă categoriei Construction & Building Technology.
- Ris_12.** GELLERT A., FLOREA A. *Web Prefetching through Efficient Prediction by Partial Matching*, World Wide Web Journal, Internet and Web Information Systems, 2015, DOI 10.1007/s11280-015-0367-8, Received: 15 December 2014 /Revised: 10 July 2015 /Accepted: 28 July 2015 /Online: 9 August 2015 # Springer Science+Business Media New York 2015, <http://link.springer.com/article/10.1007/s11280-015-0367-8> , Factor de impact: 1.474, SRI= 0.95.
- Ris_13.** GELLERT A., FLOREA A. *Web page prediction enhanced with confidence mechanism*, Journal of Web Engineering, Vol. 13, No.5&6 (2014) 507-524, Rinton Press, Factor de impact: 0.444, SRI= 0.313.
- Ris_14.** GELLÉRT Á., CALBOREAN H., VINȚAN L., FLOREA A. *Multi-Objective Optimizations for a Superscalar Architecture with Selective Value Prediction*, IET Computers & Digital Techniques, Vol. 6, No. 4 (July), pp. 205-213, ISSN: 1751-8601 (cotată Thomson Reuters, manuscript ID: CDT-2011-0116.R1), submitted - 08-Aug-2011, revised - 19-Jan-2012, accepted - 21-Mar-2012; The 2010 Impact Factor for IET Computers and Digital Techniques is 0.484; in 2011 was 0.446. SRI=0.5232 March 2011 and 0.36945 in January 2012.
- Ris_15.** GELLERT A., FLOREA A., VINTAN L. *Exploiting Selective Instruction Reuse and Value Prediction in a Superscalar Architecture*, Journal of Systems Architecture, vol. 55, issues 3, pp. 188-195, ISSN 1383-7621, Elsevier, 2009 (cotată ISI Thomson Journals - <http://scientific.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&ISSN=1383-7621>, <http://dx.doi.org/10.1016/j.sysarc.2008.11.002> , Impact Factor in 2008 = 0.984, respectively 0.722 in 2009).
- Ris_16.** FLOREA A., GELLERT A., VINTAN L., VELTAN M. *The Impact of Java Applications at Microarchitectural Level from Branch Prediction Perspectives*, International Journal of Computers, Communications & Control (IJCCC), Agora University Editing House - CCC Publications, ISSN 1841 – 9836, E-ISSN 1841-9844, Vol. IV, No. 1, pp. 27-40, 2009, v. <http://univagora.ro/jour/index.php/ijccc/article/view/2411> , Factor Impact 0.373.
- Ris_17.** VINTAN L. N., FLOREA A., GELLERT A. *Random Degrees of Unbiased Branches*, Proceedings of The Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science, Volume 9, Number 3, pp. 259 - 268, ISSN 1454-9069, Bucharest, 2008 - <http://www.academiaromana.ro/sectii2002/proceedings/doc2008-3/13-Vintan.pdf> , Factor Impact 0.333.

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Ris_18. VINȚAN L., FLOREA A., GELLERT A. – *Focalizing Dynamic Value Prediction to CPU's Context*, IEE Proceedings - Computers and Digital Techniques, Volume 152, Issue 4 (July), pp. 473-481, ISSN 1350-2387, Stevenage, UK, 2005 (Revistă indexată ISI Thomson **Journal**, SCOPUS, INSPEC).

b) Articole susținute la conferințe indexate ISI Proceedings

Ris_19. *OMiLAB: a Smart Innovation Environment for Digital Engineers*, Dimitris Karagiannis, Robert Andrei Buchmann, Xavier Boucher, Sergio Cavalieri, **Adrian Florea**, Dimitris Kiritsis, Moonkun Lee, PRO-VE 2020 - 21st IFIP / SOCOLNET Working Conference on Virtual Enterprises, 23-25 November 2020 – Valencia, Spain, LNCS.

Ris_20. Ion Mironescu, Daniel-Cristian Crăciunean, **Adrian Florea**, Ioan Bondrea, *Improving the Training Methods for Designers of Flexible Production Cells in Factories of the Future*, PRO-VE 2020 - 21st IFIP / SOCOLNET Working Conference on Virtual Enterprises, 23-25 November 2020 – Valencia, Spain, LNCS.

Ris_21. FLOREA A., FLEACĂ V., *Implementing an embedded system to identify possible COVID-19 suspects using thermovision cameras*, 24th International Conference on System Theory, Control and Computing (ICSTCC), October 2020, Sinaia, Romania.

Ris_22. FLOREA A., *Digital Design Skills for Factories of the Future*, The 9th International Conference on Manufacturing Science and Education – MSE 2019, June 5-7, 2019, Sibiu, Romania.

Ris_23. OLESCU M.L., TOCU N.A., BUTEAN A., FLOREA A. *Improving Training Methods for Industry Workers Through AI Assisted Multi-Stage Virtual Reality Simulations*, The 15th International Scientific Conference eLearning and Software for Education, DOI: 10.12753/2066-026X-19-000, Bucharest, April 11-12, 2019.

Ris_24. FLOREA, A., KIFOR, C. V., NICOLAESCU, S. S., COCAN, N., & RECEU, I. (2017), *Intellectual Capital Evaluation and Exploitation Model Based on Big Data Technologies*, The 24th International Scientific Conference on Economic and Social Development - "Managerial Issues in Modern Business", Warsaw, October 2017.

Ris_25. FLOREA A., COFARU I.I., *Improving programming skills of mechanical engineering students by teaching in C# multi-objective optimizations methods*, The 8th International Conference on Manufacturing Science and Education, Trends in New Industrial Revolution, June 7-9, 2017, Sibiu, Romania.

Ris_26. FLOREA A., GELLERT A., *E-learning Approach of the Graph Coloring Problem Applied to Register Allocation in Embedded Systems*, The Sixth International Conference on Innovative Computing Technology (INTECH 2016), pp. 88-93, ISBN 978-1-5090-2000-3, Dublin, Ireland, 24-26 August 2016.

Ris_27. FLOREA A., FLOREA D., GELLERT A., FLOREA A.C. *Teaching Programming by Developing Games in ALICE*, The 12th International Scientific Conference eLearning and Software for Education, DOI: 10.12753/2066-026X-16-073, Bucharest, April 21-22, 2016.

Ris_28. FLOREA A., BĂNCIOIU I. *Future House Automation*, Proceedings of the 19th International Conference on System Theory, Control and Computing, DOI: 10.1109/ICSTCC.2015.7321375, pp. 699-704, Sinaia, 14-16th October 2015, Cheile Grădiștei, Romania (indexată IEEEExplore, SCOPUS, GoogleScholar).

Ris_29. FLOREA A., BURGHELEA E., FLOREA D., GELLERT A. *MiniGL: Game and Learning*, The 11th eLearning and Software for Education Conference - eLSE 2015 - organized by the Romanian Advanced Distributed Learning Association, DOI 10.12753/2066-026X-15-000, pp.



- 1-8, ISSN: 2066 – 026X, pp. 180-187, Bucharest, April 23-24, 2015 (indexată EBSCO, ProQuest, GoogleScholar).
- Ris_30. FLOREA A., GELLERT A.** *Different approaches for solving optimization problems using interactive e-learning tools*, The 10th eLearning and Software for Education Conference - eLSE 2014 - organized by the Romanian Advanced Distributed Learning Association, pp.74-75(1-9), ISSN: 2066 – 026X; DOI 10.12753/2066-026X-14-081 (indexată ISI Proceedings).
- Ris_31. FLOREA A., KLEIN A., BADEA V., STEFANESCU M., GELLERT A.** *Using FOCAP Tool for Teaching Microarchitecture Simulation and Optimization*, DOI: 10.1109/ICSTCC.2013.6688964, Proceedings of the 17th International Conference on System Theory, Control and Computing, Sinaia, 11-13th October 2013, ISBN 978-1-4799-2228-4, pp. 225-230 (indexată ISI Proceedings).
- Ris_32. FLOREA A., RATIU A., GELLERT A., VINTAN L.** *A Visual Simulation Framework for Simultaneous Multithreading Architectures*, Proceedings of the 25th European Conference on Modeling and Simulation (ECMS 2011), Krakow, Poland, June 7-10, 2011 (paper IS-18), ISBN: 978-0-9564944-2-9, pp. 403-409 (indexată SCOPUS, DBLP, Google Scholar, CiteSeerX).
- Ris_33. FLOREA A., GELLERT A., ANGHEL T., FLOREA D.** *Online Collaborative Education Management Tool*, Proceedings of the 5th International Conference on Virtual Learning (2010 – Towards a Learning and Knowledge Society – 2030), October 29-31, 2010, Targu Mures, Romania, ISSN 1844 - 893, pp. 367-374 (indexată ISI Proceedings).
- Ris_34. ANGHEL T., FLOREA A., GELLERT A., FLOREA D.** *Web-based Technologies for Online e-Learning Environments*, Proceedings of the 7th International Scientific Conference eLSE – eLearning and Software for Education (eLSE 2011), April 28-29, 2011, Bucharest, Romania, ISSN: 2066-026X, Volume II, pp. 502-509 (indexată ISI Proceedings).
- Ris_35. ANGHEL T., FLOREA A., FLOREA D.** *Improving course interaction and management with Testing Assistant*, Proceedings of the 6th International Scientific Conference eLSE - eLearning and Software for Education (eLSE 2010): Advanced Distributed Learning in education and training transformation, April 15-16, 2010, Bucharest, Romania, ISSN: 2066-026X, pp. 161-174 (indexată ISI Proceedings).
- Ris_36. GELLERT A., PALERMO G., ZACCARIA V., FLOREA A., VINTAN L., SILVANO C.** *Energy-Performance Design Space Exploration in SMT Architectures Exploiting Selective Load Value Predictions*, Design, Automation & Test in Europe International Conference (DATE 2010), March 8-12, 2010, Dresden, Germany (<http://www.date-conference.com/front>, 326 accepted papers from over 980 submitted papers), ISBN: 978-3-9810801-6-2, pp. 271-274 (indexată SCOPUS, DBLP, IEEEExplore, ACM Digital Library, CiteSeerX, EBSCO).
- Ris_37. GELLERT A., FLOREA A., VINȚAN M., EGAN C. and VINTAN L.** *Unbiased Branches: An Open Problem*, “Lecture Notes in Computer Science”, vol. 4697, pp. 16-27, Springer-Verlag Berlin Heidelberg, ISSN 0302-9743, ISBN 978-3-540-74308-8, Berlin Heidelberg, 2007 (indexată ISI Proceedings).
- Ris_38. VINTAN L., GELLERT A., FLOREA A., OANCEA M., EGAN C.** *Understanding Prediction Limits through Unbiased Branches*, “Lecture Notes in Computer Science”, vol. 4186-0480, pp. 483-489, Springer-Verlag, ISSN 0302-9743, Berlin Heidelberg, 2006 (indexată ISI Proceedings).
- Ris_39. FLOREA A., VINȚAN L.** *Advanced Techniques for Improving Indirect Branch Prediction Accuracy*, Proceedings of The 2005 High Performance Computing & Simulation (HPC&S) Conference in conjunction with 19th European Conference on Modeling and Simulation, Riga, Letonia, 2005 (indexată ISI Proceedings).



c) Articole publicate în reviste indexate BDI

- Ris_40. FLOREA Adrian**, MIRONESCU Ion, CRACIUNEAN Cristian Daniel, MORARIU Ionel Daniel, VOLOVICI Daniel, *Design Methodology and Tools in Factory of the Future*, International Journal of Advanced Statistics and IT&C for Economics and Life Sciences, Vol 11, No 1 (2021) , DOI:10.2478/ijasitels-2021-0001
- Ris_41. Florea A.**, Vasilas T. (2021) *Optimizing the Integration Area and Performance of VLIW Architectures by Hardware/Software Co-design*. In: Simian D., Stoica L.F. (eds) Modelling and Development of Intelligent Systems. MDIS 2020. Communications in Computer and Information Science, vol 1341. Springer, Cham. https://doi.org/10.1007/978-3-030-68527-0_3
- Ris_42. Adrian Florea**, Valentin Fleaca, Simona Daniela Marcu, *Innovative solution for parking-sharing of private institutions using various occupancy tracking methods*, Advances in Science, Technology and Engineering Systems Journal (ASTESJ), 5(5), 2020, 808-819.
- Ris_43. BUDULECI C., GELLÉRT A., FLOREA A., CHIȘ R., BRAD R.**, *Multi-Objective Optimization of Speculative and Anticipative Multi-Core Architectures*, The Sixteenth International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES 2020), Virtual Poster Presentation, Academic Press, Ghent, Belgium, ISBN 90 382 0981 9, July 2020 (indexată Google Scholar).
- Ris_44. CIURTE C., FLOREA A.**, *Informatic System for Monitoring Public Transportation in Urban Area*, Journal of E-Technology 10 (2), 38 - 45, May 2019.
- Ris_45. FIORE U., FLOREA A., GELLERT A., VINTAN L., ZANETTI P.**, *Optimal partitioning of LLC in CAT-enabled CPUs to prevent side-channel attacks*, 10th International Symposium on Cyberspace Safety and Security (CSS2018) – October 29-31, 2018 – Amalfi – Italy, CSS 2018, LNCS 11161, pp. 1–9, 2018, https://doi.org/10.1007/978-3-030-01689-0_9.
- Ris_46. TOMASZEWSKA E.J., FLOREA A.**, *Urban smart mobility in the scientific literature — bibliometric analysis*, Engineering Management in Production and Services, Volume 10, Issue 2, 2018, ISSN 2543-6597, Ed. Bialystok University of Technology, Faculty of Engineering Management, International Society for Manufacturing, Service and Management Engineering, Poland, DOI: 10.2478/emj-2018-0010.
- Ris_47. IG RINEA, D FLOREA, A FLOREA**, *Developing Mobile Apps to Protect Environment*, Journal of E - Technology, (DLINE journal), Volume 9, Number 1, February 2018, pp. 1-10.
- Ris_48. FLOREA, A., GELLERT, A.** (2017), *Developing Heuristics for the Graph Coloring Problem Applied to Register Allocation in Embedded Systems*, Journal of Multimedia Processing and Technologies (DLINE journal), Volume 8, Number 3, September 2017, pp. 74-86.
- Ris_49. FLOREA A.**, *Teaching The Microprocessors Systems Focused on Societal Challenges: Designing of Performant Cache Replacement Algorithms as Green Information Technology (IT) Solution*, Journal of Digital Information Management, April 2017;15(2):50-65.
- Ris_50. BERNTZEN L., JOHANNESSEN M.R., FLOREA A.**, *Smart Cities: Challenges and a Sensor-based Solution, A research design for sensor-based smart city projects*, International Journal on Advances in Intelligent Systems, http://www.iariajournals.org/intelligent_systems/, ISSN 1942-2679), Publisher - International Academy, Research and Industry Association (IARIA), Volume 9, Issue 3 & 4, pp. 579-588, 30 December 2016.
- Ris_51. FLOREA A., COFARU I., ROMAN L., COFARU N.** – *Applying the Multi-objective Optimization Techniques in the Design of Suspension Systems*, Journal of Digital Information Management (the peer reviewed international journal in digital information science and technology, ISSN 0972-7272), Publisher - Digital Information Research Foundation Chennai, India, Volume 14, Issue 6, December 2016, pp. 351-367, see <http://www.dirf.org/jdim/v14i6.asp> (indexata SCOPUS, DBLP).



- Ris_52.** COFARU N., **FLOREA A.** *Different Methods of Artificial Intelligence Used for Optimization the Turning Process*, Applied Mechanics and Materials Vols. 808 (2015) pp 60-65, © (2015) Trans Tech Publications, Switzerland, DOI: 10.4028/www.scientific.net/AMM.808.60, Submitted: 2015-06-15, Revised: 2015-07-31, Accepted: 2015-07-31 (indexată EBSCO, Scientific.NET, Crossref).
- Ris_53.** **FLOREA A.**, COFARU N. *Implementing some Evolutionary Computing Methods for Determining the Optimal Parameters in the Turning Process*, Applied Mechanics and Materials Vols. 809-810 (2015) pp 902-907, © (2015) Trans Tech Publications, Switzerland, DOI: 10.4028/www.scientific.net/AMM.809-810.902, Submitted: 2015-02-16, Revised: 2015-03-30, Accepted: 2015-04-18 (indexată EBSCO, Scientific.NET, Crossref).
- Ris_54.** ROMAN L., **FLOREA A.**, COFARU I.I. *Mathematical model and software simulation of suspension's system from OPEL cars*, Fascicle of Management and Technological Engineering, Vol. 23, No. 3 (December 2014), pp. 94-99, ISSN 1583 – 0691 (indexată IndexCopernicus, GoogleScholar, Ulrichsweb).
- Ris_55.** ROMAN L., **FLOREA A.**, COFARU I.I. *Software application for assessment the reliability of suspension system at OPEL cars and of road profiles*, Fascicle Management and Technology Engineering, Vol. 23, No. 1 (May 2014), pp. 289-294, ISSN 1583 – 0691 (indexată IndexCopernicus, GoogleScholar, Ulrichsweb).
- Ris_56.** GELLERT A., **FLOREA A.** *Investigating a New Design Pattern for Efficient Implementation of Prediction Algorithms*, Journal of Digital Information Management (the peer reviewed international journal in digital information science and technology, ISSN 0972-7272), Publisher - Digital Information Research Foundation Chennai, India, Volume 11, Issue 5, pp. 366-377, October 2013, see <http://www.dirf.org/jdim/v11i5.asp> (indexata SCOPUS, DBLP).
- Ris_57.** ROMAN L., **FLOREA A.**, COFARU I.I. *Implementing a relational database to survey cars' reliability exploited in Romania*, Fascicle of Management and Technological Engineering, Vol. 22, No. 1 (May 2013), pp. 313-316, ISSN 1583 – 0691, see <http://imtuoradea.ro/auo.fmte/files-2013-v1/Roman%20Lucian%201.pdf> (indexata IndexCopernicus, GoogleScholar, Ulrichsweb).
- Ris_58.** ROMAN L., **FLOREA A.**, COFARU I.I. *Software application for OPEL cars'maintenance management* (plenary paper), Fascicle of Management and Technological Engineering, Vol. 22, No. 1 (May 2013), pp. 317-322, ISSN 1583 – 0691, see <http://imtuoradea.ro/auo.fmte/files-2013-v1/Roman%20Lucian%202.pdf> (indexată IndexCopernicus, GoogleScholar, Ulrichsweb).
Lucrarea a fost prezentată în plenul conferinței Annual Session Of Scientific Papers, IMT Oradea 2013, Oradea, May 2013 (<http://www.imtuoradea.ro/conf/download/PROGRAM%20of%20CONFERENCE%20IMT%20Oradea%202013.pdf>).
- Ris_59.** ANGHEL T., **FLOREA A.**, GELLERT A., FLOREA D. *Developing Online Collaborative Games for e-Learning Environments*, ICWL Workshops 2012: 221-230, New Horizons in Web Based Learning - ICWL 2012 International Workshops, KMEL, SciLearn, and CCSTED, Sinaia, Romania, September 2-4, 2012, Revised Selected Papers, Springer 2014 Lecture Notes in Computer Science, ISBN 978-3-662-43453-6 (Springer Link, SCOPUS, DBLP, EBSCO).
- Ris_60.** **FLOREA A.**, GELLERT A., ANGHEL T., FLOREA D. *Enhanced Learning and Educational Management through Online Collaborative Technologies*, Journal of Digital Information Management (the peer reviewed international journal in digital information science and technology, ISSN 0972-7272), Publisher - Digital Information Research Foundation Chennai, India, Volume 9, Issue 1, pp. 33-42, February 2011, see <http://www.dirf.org/jdim/v9i1.asp> (indexată SCOPUS, DBLP).
- Ris_61.** RADU C., CALBOREAN H., **FLOREA A.**, GELLERT A., VINTAN L. *Exploring some multicore research opportunities. A first attempt*, Fifth International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES 2009),

Terrassa (Barcelona), Spain, Academic Press, Ghent, Belgium, ISBN 90 382 0981 9, July 2009 (indexată Google Scholar).

- Ris_62. 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_63. 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_64. 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_65. 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_66. 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_67. FLOREA A., VINȚAN 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_68. VINȚAN 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, Iași Secția IV: Automatică și 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), Iași, Romania October, 2004.
- Ris_69. VINȚAN 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_70. VINȚAN 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. Universității "L. Blaga" din Sibiu, 2001 (indexată Google Scholar).
- Ris_71. SBERA M., VINȚAN 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. Universității "L. Blaga" din Sibiu, 2001 (indexată Google Scholar).
- Ris_72. FLOREA A., VINȚAN 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. Universității "L. Blaga" din Sibiu, (indexată HEIDI - Katalog für die Bibliotheken der Universität Heidelberg, <http://katalog.ub.uni-heidelberg.de/cgi-bin/titel.cgi?katkey=65410044> , GoogleScholar).
- Ris_73. VINȚAN 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. Universității "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).

4⁰ Articole/studii publicate în volumele unor manifestări științifice: a) internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi) și b) naționale (Vn), inclusiv cotate ISI sau indexate în baze de date internaționale.

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

- Vis_1.** **ADRIAN FLOREA**, CHRISTOPH MEINEL. *Successful Knowledge Transfer – A Boost for Regional Innovation*. 22nd IFIP WG 5.5 Working Conference on VIRTUAL ENTERPRISES, PRO-VE 2021, Nov 2021, Saint-Etienne, France.
- Vis_2.** Andrea Revesz, Mina Vasalou, **Adrian Florea**, Roger Gilabert, Leona Johansson Bunting, Ylva Hård af Segerstad, Ioan P Mișu, 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_3.** 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_4.** 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_5.** 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_6.** **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_7.** 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_8.** **FLOREA A.**, BUDULECI C.R., CHIS R., GELLERT A., VINTAN L., *Enhancing the Sniper Simulator with Thermal Measurement*, DOI: 10.1109/ICSTCC.2014.6982386, pp. 31-36, Proceedings of the 18th International Conference on System Theory, Control and Computing, Sinaia, 17-19th October 2014 (indexată IEEEExplore, SCOPUS, GoogleScholar).
- Vis_9.** **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



- Tehnologi 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_10.** 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_11.** VINȚAN 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_12.** **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_13.** **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_14.** **FLOREA A.**, VINȚAN 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_15.** **FLOREA A.**, VINȚAN 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_16.** VINȚAN 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_17.** **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_18.** VINȚAN 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_19.** VINȚAN 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_20. STEVEN G.B., VINȚAN 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, creații artistice etc.) publicate în volumele unor manifestări științifice (sesiuni de comunicări, conferințe etc.) internaționale recunoscute (cu ISSN sau ISBN)

Vis_21. 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_22. KONNERETH 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_23. 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_24. 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.

4⁰ Proiecte de cercetare-dezvoltare-inovare: a) obținute prin competiție pe bază de contract/grant în țară / străinătate (Pn-naționale, Pi-internaționale); b) alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz.

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

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, finanțare 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. VINȚAN L. (coordonator general proiect) / **FLOREA A. (membru/secretar local)**, grant internațional Phare; - Proiect internațional TEMPUS JEP AC 13559/1998 "Retraining Support for Small and Medium Enterprises", perioada 1998 - 2000, în valoare de peste 200.000 ECU (cca. 70.000 ECU la ULB Sibiu), în colaborare cu universități din: București ("Politehnica"), Brașov ("Transilvania"), Anglia (De Montfort, Leicester), Irlanda (Galway), Spania (Autonoma Barcelona) și 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**, Mișu P. Ioan – director proiect ULBS.

b) proiecte în cadrul unor programe de cercetare internaționale;

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 (Netherlands) și 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 (Elveția), Ecole Normale Supérieure de Lyon (France) și organizat de către Departamentul Electronică și Calculatoare, Facultatea de Inginerie Electrică și Știința Calculatoarelor, Universitatea "Transilvania" din Brașov, Poiana Brașov, 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 aplicații 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 naționale;

Pn 1. *A Mobile Platform for Environmental Monitoring*, Grant ANPCDEF 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 ANPCDEF 20-COP-0019 ESAYEP nr. F-SEE-026/06.2021 - EEA Grants, 87,547 Euro (evaluat la 101p. Locul 3 din 21, primele 5 finanțate), - **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 Ministry, 2017, Buget 10,000 Euro
- Pn 4.** *Cercetări privind optimizarea parametrilor procesului de solicitare mecanică a ansamblurilor sudate de țevi și fittinguri 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, consultanță tehnică și pregătire profesională referitoare la dezvoltarea de aplicații 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 predicția ramificațiilor; 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 instrucțiuni (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 performanță*, 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 instrucțiuni (II)*, Grant ANSTI 6229, CG 12/05.06.2001 - 30 mil. Lei, – **Membru în colectivul de cercetare;**
- Pn 14.** *Îmbunătățiri 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 și al administrației publice – premisă a descentralizării și 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 operațional al calificărilor din învățământul superior din România – DOCIS (2009-2011, aproximativ 17 milioane RON)”, Proiect DOCIS, cod 1622, contract POSDRU /2/1.2/S/2, proiect strategic finanțat de Fondul Social European și Guvernul României (Agenția ACPART) prin Programul Operațional 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 parțial Nr. 32851/08.04.2013 și Nr. 33940/31.10.2013)”, Proiect DidaTec, contract POSDRU /87/1.3/S/60891, proiect strategic finanțat de Fondul Social European și Guvernul României prin Programul Operațional 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 finanțat de Fondul Social European și Guvernul României prin Programul Operațional 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 soluții)**, 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 și Proconfort S.R.L Sibiu „*Studii teoretice și experimentale asupra comportării mecanice a ansamblurilor sudate de țevi și fittinguri din polietilenă de înaltă densitate*”, valoare contract: 11500 RON, – **Director proiect.**

Pn 22. *Sinteza de cercetare (20.10.2006)* la grantul de cercetare *Îmbunătățiri ale paradigmei arhitecturilor superscalare prin reutilizarea și predicția valorilor instrucțiunilor*, Grant CNCISIS cod 71/2004, 360 mil. Lei, – **Membru în colectivul de cercetare.**

e) propuneri de proiecte în cadrul unor programe de cercetare internaționale nefinanțate;

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 naționale nefinanțate;

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 Wirtschaftsklub 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 pozitile 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. *Creșterea performanței arhitecturilor de calcul cu paralelism la nivelul instrucțiunilor prin predicția salturilor și 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 naționale depuse în așteptarea 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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CANDIDAT,

Prof. dr. ing. Adrian FLOREA

