

Prof. Dr. Eng. Florin Pop

Scientific Achievements 2000-2016

a. Publications 2000-2016	1
Book Chapters (International Publishing Houses)	
Book Chapters (National Publishing Houses)	
b. Journal Papers, Articles published in Conference Proceedings	4
ISI Publications	
Digital Libraries (other than ISI)	
c. Grants, Research Project (Director, Member in the project team)	18
International Projects	
Director	
Member in the project team	
National Projects	
Director	
Member in the project team	

a. Publications 2000-2016

Book Chapters (International Publishing Houses)

1	Bogdan-Costel Mocanu, Florin Pop , Ciprian Dobre, Valentin Cristea, Self-adaptive Overlay Networks, Chapter in Pervasive Computing: Next Generation Platforms for Intelligent Data Collection, Editors: Ciprian Dobre and Fatos Xhafa, pp. 27-44, ISBN: 978-0-128-03663-1, Elsevier, 13 Apr 2016
2	Florin Pop , Catalin Negru, Sorin N. Ciolofan, Mariana Mocanu, and Valentin Cristea, Optimizing Intelligent Reduction Techniques for Big Data, Chapter in "Big Data Optimization: Recent Developments and Challenges", Editors: Emrouznejad, Ali (Ed.), pp. 49-70, Springer, Studies in Big Data, ISBN: 978-3-319-30263-8, 2016
3	Ionut-Mihai Posea, Marius Ion, Florin Pop , Decebal Popescu and Nirvana Popescu. "E-Vote: A Cloud-Based Electronic Voting System for Large-Scale Election." Chapter in Cloud Computing Technologies for Connected Government, ed. Zaigham Mahmood, 188-213 (2016), accessed April 15, 2016. doi:10.4018/978-1-4666-8629-8.ch008
4	Florin Pop , Radu-Ioan Tutueanu, Ciprian Barbieru, Mihaela-Andreea Vasile, and Joanna Kołodziej. "Adaptive Resource Allocation in Cloud Computing Based on Agreement Protocols." Chapter in Intelligent Agents in Data-intensive Computing, pp. 193-213. Springer International Publishing, 2016. doi:10.1007/978-3-319-23742-8_9
5	Florin Pop , Valentin Cristea, The Art of Scheduling for Big Data Science, Chapter in Big Data: Algorithms, Analytics, and Applications, Eds. Kuan-Ching Li, Hai Jiang, Laurence T. Yang, Alfredo Cuzzocrea, Chapman & Hall/CRC Big Data Series, pp. 105-120, ISBN 978-1482240559, 2015
6	Chilipirea, Cristian, Andreea Petre, Ciprian Dobre, Florin Pop , and Fatos Xhafa. "Enabling Vehicular Data with Distributed Machine Learning." Chapter in Transactions on Computational

	Collective Intelligence XIX, Volume 9380 of the series Lecture Notes in Computer Science pp. 89-102. Springer Berlin Heidelberg, 2015. doi:10.1007/978-3-662-49017-4_6
7	Radu-Ioan Ciobanu, Valentin Cristea, Ciprian Dobre, Florin Pop , Big Data Platforms for the Internet of Things, Chapter in “Studies in Computational Intelligence” book series, Springer (2014), Big Data and Internet of Things: A Roadmap for Smart Environments, Bessis, N.; Dobre, C. (Eds.), ISBN: 978-3-319-05028-7, Volume 546, 2014, pp 3-34, doi:10.1007/978-3-319-05029-4_1
8	Valentin CRISTEA, Ciprian DOBRE, Florin Pop , Context-Aware Environments for the Internet of Things, Chapter in “Studies in Computational Intelligence” book series, Springer (2013), INTERNET OF THINGS AND INTER-COOPERATIVE COMPUTATIONAL TECHNOLOGIES FOR COLLECTIVE INTELLIGENCE, Bessis, N.; Xhafa, F.; Varvarigou, D.; Hill, R.; Li, M. (Eds.), ISBN: 978-3-642-34952-2, 2013, pp 25-49. doi:10.1007/978-3-642-34952-2_2
9	Florin Pop , Ciprian Dobre, Catalin Negru, Valentin Cristea. Re-scheduling Service for Distributed Systems, Chapter in Advances in Intelligent Control Systems and Computer Science, Advances in Intelligent Systems and Computing, Vol. 187, pp. 423-437, ISBN: 978-3-642-32548-9, 2013, doi:10.1007/978-3-642-32548-9_30
10	Ciprian Dobre, Florin Pop , Valentin Cristea, A Simulation Model for Mechanisms, Heuristics and Rules for P2P Systems, Chapter in Studies in Computational Intelligence: “Advances in Intelligent Modeling and Simulation: Artificial Intelligence-based Models and Techniques in Scalable Computing”, pp: 235-265, ISBN 978-3-642-30153-7, 2012, XXIV, 384 p.
11	Valentin Cristea, Florin Pop , Ciprian Dobre, and Alexandru Costan, Distributed Architectures for Event-Based Systems, Chapter in S. Helmer et al.: Reasoning in Event-Based Distributed Systems, SCI 347, pp. 11–45, Springer-Verlag Berlin Heidelberg, ISBN: 978-3-642-19723-9, 2011
12	Florin Pop , Grid Scheduling: Methods, Algorithms, and Optimization Techniques, Nikolaos P. Preve (Ed.) COMPUTATIONAL AND DATA GRIDS, Principles, Designs, and Applications, Chapter IV, pp. 86-111, ISBN 978-1-61350-115-3, 2011
13	Valentin Cristea, Ciprian Dobre, Corina Stratan, Florin Pop , Alexandru Costan, "Large-scale Distributed Computing and Applications: Models and Trends", Ed. Information Science Publishing, ISBN: 978-1615207039, 390 pg., April 2010.
14	Florin Pop , A Fault Tolerant Decentralized Scheduling in Large Scale Distributed Systems, chapter in Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies, and Applications, N. Antonoupoulos, G. Exarchakos, M. Li, A. Liotta (Eds.), Ed. Information Science Reference (IGI Global), ISBN: 978-1615206865, pp. 566-588, February 2010
15	Dragos Sbirlea, Alina Simion, Florin Pop , Valentin Cristea, Monitoring and Performance Analysis of Workflow Applications, Chapter in Large Scale Distributed Systems, Intelligent Networking, Collaborative Systems and Applications, 2010 Springer-Verlag Berlin Heidelberg, pp: 171-192, ISBN 978-3-642-16792-8
16	Bogdan Ghit, Florin Pop , Valentin Cristea, Intrusion Detection in Multi-Agent Systems, Chapter in Intelligent Networking, Collaborative Systems and Applications, 2010 Springer-Verlag Berlin Heidelberg, pp: 235-256, ISBN 978-3-642-16792-8
17	George Iordache, Marcela Boboila, Florin Pop , Corina Stratan, Valentin Cristea, Decentralized Grid Scheduling using Genetic Algorithms, Chapter in Metaheuristics for Scheduling in Industrial and Manufacturing Applications, Series: Studies in Computational Intelligence, Vol. 128, Xhafa, Fatos; Abraham, Ajith (Editors), pp 215-246., ISBN: 978-3-540-78984-0, 2008

Book Chapters (National Publishing Houses)

1	Florin Pop , CollectGATE: Data Collection and Aggregation Service. Book chapter in “Advances in Engineering: from Theory to Application”, Eds.: Ecaterina Andronescu, Corneliu Burileanu, Editura Politehnica Press, pp.: 69-76, 2012, ISBN: 978-606-515-381-3
2	Florin Pop . Scheduling Methods and Algorithms for Distributed Systems. Ed. Politehnica Press, ISBN: 978-606-515-344-8, 2011, 264 pagini
3	Valentin Cristea, Florin Pop , Ciprian Dobre, Catalin Leordeanu, Alexandru Costan, Eliana Tirsa, Elena Apostol, Corina Stratan. Sisteme Distribuite de Mari Dimensiuni. Modele si Tehnici de Asigurare a Fiabilitatii, Sigurantei, Disponibilitatii si Securitatii. Ed. Politehnica Press, ISBN: 978-606-515-343-1, 2011, pagini 364
4	Valentin Cristea, Mihai Tanase, Florin Pop , Radu Constantinescu, Ciprian Dobre, Andrei Toma. Platforma integrata pentru realizarea de tranzactii si servicii electronice de pe echipamente mobile larg raspandite. Ed. Politehnica Press, ISBN: 978-606-515-342-4, 2011, 243 pagini
5	Erik Bodegom, David W. McClure, Pier Paolo Delsanto, Antonio S. Gliozzi, Dan-Alexandru Iordache, Florin Pop , Constantin-Dan Rosu, and Ralf Widenhorn. COMPUTATIONAL PHYSICS GUIDE, Vol. 1. Basic Notions, Ed. Politehnica Press, 2009, ISBN: 978-606-515-062-1, 360 pagini
6	Florin Pop , Costin Grigoras, Alex Costan, Ciprian Dobre, Valentin Cristea. Tehnologii actuale in sistemele grid, Atelier de Lucru MEDIOWGRID vol 1, pp: 80-98, ISBN: 973-713-090-1, Ed MEDIAMIRA Cluj-Napoca, 2006.

b. Journal Papers, Articles published in Conference Proceedings

ISI Publications

1	Florin Pop , Ciprian Dobre, Dragos Comaneci, and Joanna Kolodziej. "Adaptive scheduling algorithm for media-optimized traffic management in software defined networks." <i>Computing</i> 98, no. 1-2 (2016): 147-168, ISSN: 0010-485X, doi:10.1007/s00607-014-0406-9
2	Andrei Sfrent and Florin Pop . "Asymptotic scheduling for many task computing in big data platforms." <i>Information Sciences</i> 319 (2015): 71-91, ISSN: 0020-0255, doi:10.1016/j.ins.2015.03.053
3	Vlad Serbanescu, Florin Pop , Valentin Cristea, and Gabriel Antoniu. "A formal method for rule analysis and validation in distributed data aggregation service." <i>World Wide Web</i> 18, no. 6 (2015): 1717-1736, doi:10.1007/s11280-015-0334-4
4	Vasile, Mihaela-Andreea, Florin Pop , Radu-Ioan Tutueanu, Valentin Cristea, and Joanna Kolodziej. "Resource-aware hybrid scheduling algorithm in heterogeneous distributed computing." <i>Future Generation Computer Systems</i> 51 (2015): 61-71, ISSN: 0167-739X, doi:10.1016/j.future.2014.11.019
5	Florin Pop , Ciprian Dobre, Valentin Cristea, Nik Bessis, Fatos Xhafa, and Leonard Barolli. "Deadline scheduling for aperiodic tasks in inter-Cloud environments: a new approach to resource management." <i>The Journal of Supercomputing</i> 71, no. 5 (2015): 1754-1765, ISSN: 0920-8542, doi:10.1007/s11227-014-1285-8.
6	Florin Pop , Ciprian M. Dobre, Valentin Cristea, Nik Bessis, Fatos Xhafa Xhafa, and Leonard Barolli. "Reputation-guided evolutionary scheduling algorithm for independent tasks in inter-clouds environments." <i>International journal of web and grid services</i> 11, no. 1 (2015): 4-20, ISSN: 1741-1106, doi:10.1504/IJWGS.2015.067159
7	Radu Ioan Ciobanu, Ciprian Dobre, Valentin Cristea, Florin Pop , and Fatos Xhafa, "SPRINT-SELF: Social-Based Routing and Selfish Node Detection in Opportunistic Networks," <i>Mobile Information Systems</i> , vol. 2015, Article ID 596204, 12 pages, 2015. doi:10.1155/2015/596204
8	Jing Li, Mingying Wu, Jianhua Ge, Chensi Zhang, Florin Pop , and Yingguan Wang. "Performance analysis of bidirectional cloud networks with imperfect channel state information." <i>Concurrency and Computation: Practice and Experience</i> 27, no. 8 (2015): 2092-2106, ISSN: 1532-0626, doi:10.1002/cpe.3406
9	Florin Pop , Radu-Ioan Ciobanu, and Ciprian Dobre. "Adaptive method to support social-based mobile networks using a pagerank approach." <i>Concurrency and Computation: Practice and Experience</i> 27, no. 8 (2015): 1900-1912, ISSN: 1532-0626, doi:10.1002/cpe.3103
10	Fatos Xhafa, Alina-Diana Potlog, Evjola Spaho, Florin Pop , Valentin Cristea, and Leonard Barolli. "Evaluation of intra-group optimistic data replication in P2P groupware systems." <i>Concurrency and Computation: Practice and Experience</i> 27, no. 4 (2015): 870-881, ISSN: 1532-0626, doi:10.1002/cpe.2836
11	Mihaela-Catalina Nita, Florin Pop , Cristiana Voicu, Ciprian Dobre, and Fatos Xhafa. "MOMTH: multi-objective scheduling algorithm of many tasks in Hadoop." <i>Cluster Computing</i> 18, no. 3 (2015): 1011-1024, doi:10.1007/s10586-015-0454-8
12	Monica Patrascu, Alexandra Florentina Stancu, and Florin Pop . "HELGA: a heterogeneous encoding lifelike genetic algorithm for population evolution modeling and simulation." <i>Soft Computing</i> 18, no. 12 (2014): 2565-2576, ISSN: 1432-7643, doi:10.1007/s00500-014-1401-y

13	Pantelimon George Popescu, Emil-Ioan Slușanschi, Voichița Iancu, and Florin Pop . "A new upper bound for Shannon entropy. A novel approach in modeling of Big Data applications." <i>Concurrency and Computation: Practice and Experience</i> , Volume: 28 Issue: 2 Pages: 351-359, 2016, ISSN: 1532-0626, doi:10.1002/cpe.3444
14	Florin Pop , "High Performance Numerical Computing for High Energy Physics: A New Challenge for Big Data Science," <i>Advances in High Energy Physics</i> , vol. 2014, Article ID 507690, 13 pages, 2014, ISSN: 1687-7357, doi:10.1155/2014/507690
15	Pantelimon-George Popescu, Florin Pop , Alexandru Herișanu, and Nicolae Țăpuș, "New Inequalities between Information Measures of Network Information Content," <i>Mathematical Problems in Engineering</i> , vol. 2013, Article ID 175769, 3 pages, 2013, ISSN: 1024-123X, doi:10.1155/2013/175769
16	Nik Bessis, Stelios Sotiriadis, Florin Pop , and Valentin Cristea. "Using a novel message-exchanging optimization (MEO) model to reduce energy consumption in distributed systems." <i>Simulation Modelling Practice and Theory</i> 39 (2013): 104-120, ISSN 1569-190X, doi:10.1016/j.simpat.2013.02.003
17	Catalin Fratila, Ciprian Dobre, Florin Pop , Valentin Cristea. A Transportation Control System for Urban Environments, <i>Journal of Internet Technology</i> , Vol. 14 No. 3, P.425-442, 2013/5, ISSN: 1607-9264, doi:10.6138/JIT.2013.14.3.07
18	Alexandra Olteanu, Florin Pop , Ciprian Dobre, Valentin Cristea, A dynamic rescheduling algorithm for resource management in large scale dependable distributed systems, <i>Computers & Mathematics with Applications</i> , Volume 63, Issue 9, May 2012, pp. 1409-1423, ISSN 0898-1221, doi:10.1016/j.camwa.2012.02.066.
19	Florin Pop , Ciprian Dobre, An Efficient PageRank Approach for Urban Traffic Optimization, <i>Mathematical Problems in Engineering</i> , Volume 2012 (2012), Article ID 465613, 9 pages, ISSN: 1024-123X, doi:10.1155/2012/465613
20	Florin Pop , Optimization of Resource Control for Transitions in Complex Systems, <i>Mathematical Problems in Engineering</i> , Volume 2012 (2012), Article ID 625861, 12 pages, ISSN: 1024-123X, doi:10.1155/2012/625861
21	Nik Bessis, Stelios Sotiriadis, Fatos Xhafa, Florin Pop , and Valentin Cristea. 2012. Meta-scheduling issues in interoperable HPCs, grids and clouds. <i>Int. J. Web Grid Serv.</i> 8, 2 (August 2012), 153-172, ISSN: 1741-1106, doi:10.1504/IJWGS.2012.048403
22	Valentin Cristea, Catalin Leordeanu, Florin Pop , Ciprian Dobre, E-Service Security, <i>Proceedings of the Romanian Academy, Series A</i> , Vol.13, Number 2/2012, pp. 149–156, ISSN: 1454-9069
23	Florin Pop , Valentin Cristea, Scheduling Optimization based on Resources State Prediction in Large Scale Distributed Systems, <i>Control Engineering and Applied Informatics Journal</i> , Vol. 13, No. 4, pp.: 32-41, ISSN: 1454-8658, 2011
24	Dan-Alexandru Iordache, Paul Sterian, Florin Pop , Adriana-Raluca Sterian, Complex Computer Simulations, Numerical Artifacts, and Numerical Phenomena, <i>International Journal of Computers Communications & Control</i> , ISSN 1841-9836, 5(5): 744-754, 2010, doi:10.1016/0165-2125(92)90047-6
25	Dorian Gorgan, Victor Bacu, Denisa Rodila, Florin Pop and Dana Petcu, Experiments on ESIP—Environment oriented satellite data processing platform, <i>EARTH SCIENCE INFORMATICS</i> , Volume 3, Number 4, 297-308, 2010, ISSN: 1865-0473, doi:10.1007/s12145-010-0065-0

26	George Suciu, Victor Suciu, Razvan Gheorghe, Ciprian Dobre, Florin Pop , and Aniello Castiglione. "Analysis of Network Management and Monitoring Using Cloud Computing." In Computational Intelligence and Intelligent Systems, pp. 343-352. Springer Singapore, 2015.
27	Adrian Bosilca, Mihaela-Catalina Nita, Florin Pop , and Valentin Cristea. (2014, September). Cloud simulation under fault constraints. In Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on (pp. 341-348). IEEE, doi:10.1109/ICCP.2014.6937019
28	Florin Pop , Oana-Maria Citoteanu, Ciprian Dobre, Valentin Cristea, Resource Trust Management in Auto-Adaptive Overlay Network for Mobile Cloud Computing, in Proc. of 13th International Symposium on Parallel and Distributed Computing (ISPDC 2014), Porquerolles Island, Cote d'Azur, France, pp. 162-169, June 2014, doi:10.1109/ISPDC.2014.25
29	Florin Pop , Valentin Cristea, Nik Bessis, Stelios Sotiriadis, Reputation Guided Genetic Scheduling Algorithm for Independent Tasks in Inter-clouds Environments. In 2013 27th International Conference on Advanced Information Networking and Applications Workshops. IEEE Computer Society, ISBN 978-0-7695-4952-1, Washington, DC, USA, pp. 772--776, March 2013, doi:10.1109/WAINA.2013.206
30	Florin Pop and Ciprian Dobre and Valentin Cristea, Nik Bessis. Scheduling of Sporadic Tasks with Deadline Constrains in Cloud Environments. In 2013 IEEE 27th International Conference on Advanced Information Networking and Applications. IEEE Computer Society, ISBN 978-0-7695-4953-8, Washington, DC, USA, pp. 764--771, March 2013, doi:10.1109/AINA.2013.103
31	Florin Pop , Catalin Negru, Valentin Cristea, Nik Bessis. INSPECTOR: Integrated Service Platform for Management of Academic and Research Communities over the Internet. In 2013 19th International Conference on Control Systems and Computer Science (CSCS) (Ioan Dumitrache, Adina Magda Florea, Florin Pop). IEEE Computer Society, ISBN 978-0-7695-4980-4, Washington, DC, USA, pp. 247--254, May 2013
32	Ana-Cristina Surdu, Florin Pop . Semantic Approach for Modeling Profiles and Interactions Based on Digital Content. In 2013 19th International Conference on Control Systems and Computer Science (CSCS) (Ioan Dumitrache, Adina Magda Florea, Florin Pop). IEEE Computer Society, ISBN 978-0-7695-4980-4, Washington, DC, USA, pp. 232--239, May 2013, doi:10.1109/CSCS.2013.23
33	Mihaela-Catalina Nita, Cristian Chilipirea, Ciprian Dobre, Florin Pop . A SLA-based method for big-data transfers with multi-criteria optimization constraints for IaaS. In Roedunet International Conference (RoEduNet), 2013 11th. IEEE Computer Society, ISBN 978-1-4673-6114-9, ISSN 2068-1038, Washington, DC, USA, pp. 1--6, January 2013, doi:10.1109/RoEduNet.2013.6511740
34	Florin Pop and Nik Bessis. Energy-efficient and fault tolerant methods for message delivery in Internet of Things. In Roedunet International Conference (RoEduNet), 2013 11th. IEEE Computer Society, ISBN 978-1-4673-6114-9, ISSN 2068-1038, Washington, DC, USA, pp. 1--6, January 2013, doi:10.1109/RoEduNet.2013.6511735
35	Daniel Pletea, Florin Pop , Valentin Cristea, "Speculative Genetic Scheduling Method for Hadoop Environments," Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2012 14th International Symposium on, pp.281,286, 26-29 Sept. 2012, doi:10.1109/SYNASC.2012.62
36	Florin Pop , Ciprian Dobre, Decebal Popescu, Vlad Ciobanu, and Valentin Cristea. 2010. Digital certificate management for document workflows in E-government services. In Proceedings of the 9th IFIP WG 8.5 international conference on Electronic government (EGOV'10), Maria A. Wimmer, Jean-Loup Chappellet, Marijn Janssen, and Hans J. Scholl

	(Eds.). Springer-Verlag, Berlin, Heidelberg, 363-374, doi:10.1007/978-3-642-14799-9_37
37	Ciprian Dobre, Florina Constantin, Florin Pop , Valentin Cristea. A Security Simulation Model for Large Scale Distributed Systems, in Proc. of 24th annual European Simulation and Modelling Conference (ESM'2010), Hasselt, Belgia, pp. 45-51, 25-27 Octombrie 2010, http://www.eurosis.org/cms/?q=node/1577
38	Bogdan Ghit, Octavian Voicu, Florin Pop , and Valentin Cristea. 2009. Distributed Agent Platform with Intrusion Detection Capabilities. In Proceedings of the 2009 International Conference on Intelligent Networking and Collaborative Systems (INCOS '09). IEEE Computer Society, Washington, DC, USA, 81-86. doi:10.1109/INCOS.2009.72
39	Ciprian Dobre, Florin Pop , and Valentin Cristea. 2009. A Simulation Model for Evaluating Distributed Systems Dependability, in Proc. of 23rd annual European Simulation and Modelling Conference (ESM'2009), Leicester, United Kingdom, pp. 62-69, October 2009, http://www.eurosis.org/cms/index.php?q=node/1063
40	Ciprian Dobre, Florin Pop , and Valentin Cristea. 2009. New Trends in Large Scale Distributed Systems Simulation. In Proceedings of the 2009 International Conference on Parallel Processing Workshops (ICPPW '09). IEEE Computer Society, Washington, DC, USA, 182-189. doi:10.1109/ICPPW.2009.66
41	Ciprian Dobre, Florin Pop , Valentin Cristea, Towards Scalable Simulation of Large Scale Distributed Systems, Network-Based Information Systems, 2009. NBIS '09. International Conference on, vol., no., pp.103-108, 19-21 Aug. 2009, doi:10.1109/NBiS.2009.46
42	Dragos Sbirlea, Alina Simion, Florin Pop , and Valentin Cristea. 2009. Monitoring Workflow Applications in Large Scale Distributed Systems. In Proceedings of the 2009 International Conference on Intelligent Networking and Collaborative Systems (INCOS '09). IEEE Computer Society, Washington, DC, USA, 162-169. doi:10.1109/INCOS.2009.73
43	Florin Pop , Alexandru Costan, Ciprian Dobre, Corina Stratan, and Valentin Cristea. 2009. Monitoring of Complex Applications Execution in Distributed Dependable Systems. In Proceedings of the 2009 Eighth International Symposium on Parallel and Distributed Computing (ISPDC '09). IEEE Computer Society, Washington, DC, USA, 241-244. doi:10.1109/ISPDC.2009.38
44	Florin Pop , Ciprian Dobre, Corina Stratan, Alexandru Costan, Valentin Cristea, "Dynamic Meta-Scheduling Architecture Based on Monitoring in Distributed Systems," Complex, Intelligent and Software Intensive Systems, 2009. CISIS '09. International Conference on, vol., no., pp.388-395, 16-19 March 2009, doi:10.1109/CISIS.2009.13
45	Florin Pop , Ciprian Dobre, and Valentin Cristea. 2009. Genetic Algorithm for DAG Scheduling in Grid Environments, in Proc. of IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2009), Cluj-Napoca, Romania, pp. 299-305, August 2009, ISBN: 978-1-4244-5007-7, doi:10.1109/ICCP.2009.5284747
46	Catalin Leordeanu, Florin Pop , Corina Stratan, Valentin Cristea, An Agent Based Architecture for DAG Scheduling, In Distributed and Parallel Systems, Kacsuk, Péter and Lovas, Róbert and Németh, Zsolt (Eds.), pp.:129-139, ISBN: 978-0-387-79447-1, 2008, doi:10.1007/978-0-387-79448-8_12
47	Florin Pop , Ciprian Dobre, and Valentin Cristea. 2008. Decentralized Dynamic Resource Allocation for Workflows in Grid Environments. In Proceedings of the 2008 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '08). IEEE Computer Society, Washington, DC, USA, 557-563. doi:10.1109/SYNASC.2008.15
48	Florin Pop , Ciprian Dobre, Valentin Cristea. Evaluation of Multi-Objective Decentralized Scheduling for Applications in Grid Environment, in Proc. of 2008 IEEE 4th International Conference on Intelligent Computer Communication and Processing (ICCP 2008), Cluj-

	Napoca, Romania, pp. 231-238, August 2008, ISBN: 978-1-4244-2673-7, doi:10.1109/ICCP.2008.4648377
49	Florin Pop , Ciprian Dobre, and Valentin Cristea. 2008. Performance Analysis of Grid DAG Scheduling Algorithms using MONARC Simulation Tool. In Proceedings of the 2008 International Symposium on Parallel and Distributed Computing (ISPDC '08). IEEE Computer Society, Washington, DC, USA, 131-138. doi:10.1109/ISPDC.2008.15
50	Florin Pop , Communication model for decentralized meta-scheduling in Grid Environments, Proceedings of The Second International Conference on Complex, Intelligent and Software Intensive System, Second International Workshop on P2P, Parallel, Grid and Internet computing - 3PGIC-2008 (CISIS'08), pp. 315-320, March 4-7, 2008, Barcelona, Spain, Published by IEEE Computer Society, ISBN: 0-7695-3109-1, doi:10.1109/CISIS.2008.131
51	Razvan Alecsandrescu, Florin Pop , and Valentin Cristea. 2008. A Distributed Algorithm for Critical Area Detection in Satellite Imagery. In Proceedings of the 2008 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '08). IEEE Computer Society, Washington, DC, USA, 380-386. doi:10.1109/SYNASC.2008.28
52	Bogdan Simion, Catalin Leordeanu, Florin Pop , and Valentin Cristea. 2007. A hybrid algorithm for scheduling workflow applications in grid environments (ICPDP). In Proceedings of the 2007 OTM confederated international conference on On the move to meaningful internet systems: CoopIS, DOA, ODBASE, GADA, and IS - Volume Part II (OTM'07), Robert Meersman and Zahir Tari (Eds.), Vol. Part II. Springer-Verlag, Berlin, Heidelberg, 1331-1348. ISBN: 978-3-540-76835-7, doi:10.1145/322003.322011
53	Claudiu Gruia, Florin Pop , and Valentin Cristea. 2007. A Distributed Algorithm for Multispectral Image Segmentation. In Proceedings of the Ninth International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '07). IEEE Computer Society, Washington, DC, USA, 353-360. doi:10.1109/SYNASC.2007.33
54	Dana Petcu, Daniela Zaharie, Dorian Gorgan, Florin Pop , Dacian Tudor, "MedioGrid: a Grid-based Platform for Satellite Image Processing", IEEE International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, 6-8 September 2007, Dortmund, Germany, pp.: 137-142, doi:10.1109/IDAACS.2007.4488392
55	Florin Pop , Claudiu Gruia, and Valentin Cristea. 2007. Distributed algorithm for change detection in satellite images for Grid Environments. In Proceedings of the Sixth International Symposium on Parallel and Distributed Computing (ISPDC '07). IEEE Computer Society, Washington, DC, USA, 41-. doi:10.1109/ISPDC.2007.13
56	Florin Pop , Dacian Tudor, Valentin Cristea, Vladimir Cretu, Fault tolerant Scheduling framework for MedioGRID System, Proceedings of The IEEE Region 8 EUROCON 2007 Conference on Computer as a tool, September 9-12, 2007, Warsaw, Poland, Published on CD by IEEE Computer Society, ISBN: 1-4244-0813-X, pp.:505-510, doi:10.1109/EURCON.2007.4400475
57	Mihai Pantelimon, Florin Pop , and Valentin Cristea. 2007. Grid Service for Environmental Data Retrieval and Disasters Detection Based on Satellite Image Analysis. In Proceedings of the Ninth International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '07). IEEE Computer Society, Washington, DC, USA, 292-297. doi:10.1109/SYNASC.2007.32
58	Florin Pop , Ciprian Dobre, Gavrila Godza, and Valentin Cristea. 2006. A Simulation Model for Grid Scheduling Analysis and Optimization. In Proceedings of the international symposium on Parallel Computing in Electrical Engineering (PARELEC '06). IEEE Computer Society, Washington, DC, USA, 133-138. doi:10.1109/PARELEC.2006.8

59	George V. Iordache, Marcela S. Boboila, Florin Pop , Corina Stratan, and Valentin Cristea. 2006. A decentralized strategy for genetic scheduling in heterogeneous environments. In Proceedings of the 2006 Confederated international conference on On the Move to Meaningful Internet Systems: CoopIS, DOA, GADA, and ODBASE - Volume Part II (ODBASE'06/OTM'06), Robert Meersman and Zahir Tari (Eds.), Vol. Part II. Springer-Verlag, Berlin, Heidelberg, 1234-1251. doi:10.1007/11914952_13
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86	Vlad Ciobanu, Florin Pop , Decebal Popescu, and Valentin Cristea. 2010. A Distributed Approach to Business Intelligence Systems Synchronization. In Proceedings of the 2010 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '10). IEEE Computer Society, Washington, DC, USA, 581-585., doi:10.1109/SYNASC.2010.43
87	Alina Simion, Dragos Sbirlea, Florin Pop , and Valentin Cristea. 2009. Dynamic Scheduling Algorithms for Workflow Applications in Grid Environment. In Proceedings of the 2009 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '09). IEEE Computer Society, Washington, DC, USA, 254-261., doi:10.1109/SYNASC.2009.19
88	Marieta Nastase, Ciprian Dobre, Florin Pop , and Valentin Cristea. 2009. Fault Tolerance Using a Front-End Service for Large Scale Distributed Systems. In Proceedings of the 2009 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '09). IEEE Computer Society, Washington, DC, USA, 229-236., doi:10.1109/SYNASC.2009.13
89	Marius Ion, Florin Pop , Ciprian Dobre, and Valentin Cristea. 2009. Dynamic Resources Allocation in Grid Enviroments. In Proceedings of the 2009 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '09). IEEE Computer Society, Washington, DC, USA, 213-220., doi:10.1109/SYNASC.2009.20

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c. Grants, Research Project (Director, Member in the project team)

International Projects

Director

1	SideSTEP: Scheduling Methods for Dynamic Distributed Systems: a self-* approach, Bilateral Research Project RO-FR, Cod PN-II-CT-RO-FR-2012-1-0084, Contract 718/11.04.2013, Perioada de desfasurare: Jan. 2013 – Dec. 2014
2	ICT COST Action CA15140, "Improving Applicability of Nature-Inspired Optimisation by Joining Theory and Practice" (ImAppNIO), proiect EU COST. Reprezentat ca Membru în Comitetul de Management al Acțiunii (responsabil de partener): Florin Pop (UPB). WG 4 (Software) Vice-Leader, 2016 - 2020.
3	ICT COST Action IC1302, "Semantic keyword-based search on structured data sources" (KEYSTONE), proiect EU COST. Member of the Action Management Committee (partner coordinator): Florin Pop (UPB). 2013 - 2017.

Member in the project team

1	Data4Water: Excellence in Smart Data and Services for Water Management, H2020-TWINN-2015, ID: 690900, Director: Prof.dr.ing. Mariana Mocanu (UPB), 2016 - 2019
2	ERRIC: Empowering Romanian Research on Intelligent Information Technologies, FP7-REGPOT-2010-1, ID: 264207, Director: Prof.dr.ing. Adina Magda Florea (UPB), 2010 - 2013
3	ICT COST Action IC1303, "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE), proiect EU COST. Responsabil de rețeaua națională de cercetare și membru supleant în Comitetul de Management al Acțiunii (responsabil de partener): Ciprian Dobre (UPB). 2013 - 2017.
4	ICT COST Action CA15127, "Resilient communication services protecting end-user applications from disaster-based failures" (RECODIS), proiect EU COST. Responsabil de rețeaua națională de cercetare și membru supleant în Comitetul de Management al Acțiunii (responsabil de partener): Elena Apostol (UPB). 2016 - 2020.
5	ICT COST Action IC1406, "High-Performance Modelling and Simulation for Big Data Applications" (cHiPSet), proiect EU COST. Responsabil de rețeaua națională de cercetare și membru supleant în Comitetul de Management al Acțiunii (responsabil de partener): Ciprian Dobre (UPB). 2015 - 2019.
6	ICT COST Action IC1403, "Cryptanalysis of ubiquitous computing systems (CRYPTACUS)", proiect EU COST. Responsabil de rețeaua națională de cercetare și membru supleant în Comitetul de Management al Acțiunii (responsabil de partener): George Pantelimon Popescu (UPB). 2013 - 2017.
7	SEE-GRID-SCI: SEE-GRID eInfrastructure for regional eScience, FP7 Contract no. 211338, Director of partner institution: Prof.dr.ing. Nicolae Țăpuș (UPB), 2008 - 2010
8	SEE-GRID-II: South-Eastern European Grid-enabled eInfrastructure Development 2, FP6 Contract no. 031775, Director: Prof.dr.ing. Nicolae Țăpuș, 2006 - 2008
9	EGEE I: Enabling Grids for E-science, FP6 Contract no. IST-2003-508833, Director Romania: Dr. Gabriel Neagu (ICI Bucuresti), 2004 – 2006
10	EGEE II – Enabling Grids for E-science, FP6 Contract no. INFSO-RI-031688, Director Romania: Dr. Gabriel Neagu (ICI Bucuresti), 1 April 2006 – 31 March 2008

11	EGEE III: Enabling Grids for E-science, Fp7 Contract no. INFSO-RI-222667, Director Romania: Dr. Gabriel Neagu (ICI Bucuresti), 1 May 2008 - 30 April 2010.
12	EGI-InSPRE: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe, FP7 Contract no. RI-261323, Director Romania: Prof.dr.ing. Nicolae Țăpuș (UPB), 1 May 2010 - 30 April 2012
13	EU-NCIT: NCIT leading to EU IST Excellency, FP6-INCO programme, ID: 7046, FP6 Contract 17101, Director: Prof.dr.ing. Nicolae Țăpuș, 1 May 2005 - 30 April 2008
14	DataCloud@work, INRIA Associate Teams Programme, INRIA Rennes - Bretagne Atlantique and University Politehnica of Bucharest, Director Franta: Luc Bouge (INRIA), Director Romania: Prof.dr.ing. Valentin Cristea (UPB), 2010-2012

National Projects

Director

1	DataWay - Real-time Data Processing Platform for Smart Cities: Making sense of Big Data, Cod PN-II-RU-TE-2014-4-2731, Contract 718/11.04.2013, 2015 - 2017
2	SideDOWN: Smart Internet Data Downloader and Aggregator, Cod PN-II-IN-CI-2012-1-0324, Contract 165CI/09.11.2012 (Cecuri de inovare), Coordinator (UPB), 2012 - 2013
3	SORMSYS: Resource Management Optimization in Self-Organizing Large Scale Distributed Systems, Cod CNCSIS-PN-II-RU-PD-2010-220, Contract 5/28.07.2012, Perioada de desfasurare: 2010-2012
4	CollectGATE - Data Aggregation and Information Retrieval Services, Contract de Cercetare Postdoc. no. EXCEL N1/12 din 01.05.2010 (Responsabil proiect de cercetare: Florin Pop), funding contract POSDRU/89/1.5/S/62557 "Exelență în cercetare prin programe postdoctorale în domenii prioritare ale societății bazate pe cunoaștere" (EXCEL), 2010 competition, Project Manager: prof.dr.ing. Corneliu BURILEANU, 2010 - 2013.
5	Intelligent Strategies for Scheduling Optimization in Grid Environments, Cod CNCSIS-PN-I-RU-TD-20, Contract 49GR/2007, 2007 - 2009

Member in the project team

1	ClueFarm – Information system based on cloud services, accessible through mobile devices, for quality improvement of products and business development in farms, Proiect de parteneriat, CNCSIS-PN-II-PT-PCCA-2013-4, Contract de finanțare nr. 29/2014. Director proiect: Valentin Cristea (UPB). Perioada de desfășurare: 2014 - 2016.
2	MobiWay – Platformă Integrată pentru Sistemele de Transport Inteligent ale Viitorului, Proiect de parteneriat CNCSIS-PN-II-PT-PCCA-2013-4, Contract de finanțare nr. 16 / 2014. Director proiect: Ciprian Dobre (UPB). 2014 - 2016.
3	CYBERWATER: Prototype Cyberinfrastructure-based System for Decision-Making Support in Water Resources Management, Cod Proiect PN-II-PT-PCCA-2011-3.1-0602, Contract 47/05.07.2012, Director: Prof.dr.ing. Marian Muste, 2012 - 2015
4	DEPSYS: Models and Techniques for Ensuring Reliability, Safety, Availability, and Security for Large Scale Distributed Systems, Cod Proiect PN-II-IDEI-2008-1710, Contract 618/15.01.2009, Director: Prof.dr.ing. Valentin Cristea (UPB), 2009 - 31 2011

5	SERAFIMO: Platformă integrată pentru tranzacții și servicii electronice financiar-bancare realizate folosind tehnologia disponibilă pe dispozitivele mobile cu răspândire largă, PN-II-PARTENERIATE-2008-12113, Contract 12113/01.10.2008, Programul 4 "Parteneriate în domeniile prioritate", Director: Prof.dr.ing. Valentin Cristea (UPB). October 2008 - December 2011
6	PEGAF: Experimental Grid platform for the development of applications oriented towards workflows with dynamic resource allocation, PN-II-PARTENERIATE-2007-11064, Contract: 11064-1/21.09.2007 Programul 4 "Parteneriate în domeniile prioritate", Director Proiect: Dr. Gabriel Neagu (ICI Bucuresti), Coordinator UPB: Prof.dr.ing. Valentin Cristea, 2007 - 2010.
7	INFOSTRUCTURE: Advanced electronic services platform for optimizing and adapting businesses to real-time economy, PN-II-INOVARE, Contract nr. 278/07.11.2008, Director: Mihai Tănase (UTI București), Coordinator UPB: Prof.dr.ing. Valentin Cristea, 2008 - 2011
8	Decentralized Scheduling in Grid Environments Based on WEB Services Architecture, Grant CNCISIS-A-512, Tema 18, Contract: 154/2006, Director: Prof.dr.ing. Valentin Cristea (UPB), May 2007 – May 2009
9	GEEA: Centru de resurse GRID multi-corE de înaltă performanță pentru suportul cercetării, Programul Operațional POS CCE, Axa Prioritară AP2: Creșterea Competitivității Economice prin Cercetare - Dezvoltare și Inovare, Contract 51 / 11.05.2009, Director: Prof.dr.ing. Nicolae Țăpuș (UPB), Perioada de desfășurare: 11.05.2009 - 10.05.2011
10	MedioGRID: Parallel and distributed processing on Grid of geographical and environmental data, Grant INFOSOC, Contract 19CEEX-I03, Director: Prof.dr.ing. Dorian Gorgan (Universitatea Tehnică Cluj-Napoca). 2005 - 2008.
11	GridMOSI: Virtual organization in Grid technology for high-performance modeling, simulation and optimization, Grant RELANSIN, Contract CEEX 95/2005, Director: Dr. Gabriel Neagu (ICI Bucuresti). 2005 - 2008
12	Resource management and Activity Scheduling in Distributed Systems based on Grid Technologies, Grant CNCISIS-A 288/2005, Director: Prof.dr.ing. Valentin Cristea (UPB), Perioada de desfășurare: 2005 - 2007
13	MON-I: Distributed monitoring of middleware and applications in national Grid infrastructure, Grant INFOSOC, Director: Prof.dr.ing. Valentin Cristea (UPB), Perioada de desfășurare: 2004 - 2006
14	PACT: Parteneriat național pentru implementarea proiectelor firme-facultăți în vederea tranziției de la școala la viața activă, Proiect POSDRU/7/2.1/S/3, Contract 3405/2008, Director: Prof.dr.ing. Valentin Cristea, 2008-2011
15	INSEED: Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă, OIPOS DRU, Proiect Multi-Regional, Axa: 1."Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere", ID: 57748, Director: Prof.dr.ing. Theodor Borangiu, Perioada de desfășurare: Sept. 2010 - August 2013.
16	e-Administratie: Pregătirea sistemului național de e-Administratie în România, Programul Operațional "Dezvoltarea Capacității Administrative", Cod SMIS: 32612, Manager de Proiect: Marius Dorian NICOLAESCU, 2012 - 2015.
17	Proiect POSDRU/87/1.3/S/62426: "Instruirea profesorilor de Informatică pe Tehnologia .Net", Proiect strategic POS DRU Axa Prioritară 1 – "Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere", ID: 87_62426, Manager de Proiect: Gheorghe Dinu, 2013-2014.

Platformă de eLearning și curriculă eContent pentru învățământul superior tehnic, POS CCE nr. 154/323 cod SMIS – 4428, proiect co-finanțat prin Fondul European de Dezvoltare Regională, “Investiții pentru viitorul dumneavoastră”. Director: Prof.dr.ing. Nicolae Țăpuș (UPB), October 2010 – October 2012