

Activitatea stiintifica si rezultate (2000-2016)

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Articole in reviste indexate ISI

1. Ciolofan, Sorin N.; Pop, Florin; Mocanu, Mariana; Cristea Valentin. Rapid Parallel Detection of Distance-based Outliers in Time Series using MapReduce. in CONTROL ENGINEERING AND APPLIED INFORMATICS journal, Published: SEP 2016, Volume: 18, Issue: 3, Pages: 63-71
2. Vlad Serbanescu, Florin Pop, Valentin Cristea, and Gabriel Antoniu. "A formal method for rule analysis and validation in distributed data aggregation service." World Wide Web 18, no. 6 (2015): 1717-1736, doi:10.1007/s11280-015-0334-4
3. Vasile, Mihaela-Andreea, Florin Pop, Radu-Ioan Tutueanu, Valentin Cristea, and Joanna Kołodziej. "Resource-aware hybrid scheduling algorithm in heterogeneous distributed computing." Future Generation Computer Systems 51 (2015): 61-71, ISSN: 0167-739X, doi:10.1016/j.future.2014.11.019
4. Pop, Florin, 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." The Journal of Supercomputing 71, no. 5 (2015): 1754-1765, ISSN: 0920-8542, doi:10.1007/s11227-014-1285-8).
5. Pop, Florin, 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." International journal of web and grid services 11, no. 1 (2015): 4-20, ISSN: 1741-1106, doi:10.1504/IJWGS.2015.067159
6. Radu Ioan Ciobanu, Ciprian Dobre, Valentin Cristea, Florin Pop, and Fatos Xhafa, "SPRINT-SELF: Social-Based Routing and Selfish Node Detection in Opportunistic Networks," Mobile Information Systems, vol. 2015, Article ID 596204, 12 pages, 2015. doi:10.1155/2015/596204
7. Nik Bessis, Stelios Sotiriadis, Florin Pop, and Valentin Cristea. "Using a novel message-exchanging optimization (MEO) model to reduce energy consumption in distributed systems." Simulation Modelling Practice and Theory 39 (2013): 104-120, ISSN 1569-190X, <http://dx.doi.org/10.1016/j.simpat.2013.02.003>
8. Catalin Fratila, Ciprian Dobre, Florin Pop, Valentin Cristea. A Transportation Control System for Urban Environments, Journal of Internet Technology, Vol. 14 No. 3, P.425-442, 2013/5, ISSN: 1607-9264, doi:10.6138/JIT.2013.14.3.07
9. Xhafa, Fatos, Alina-Diana Potlog, Evjola Spaho, Florin Pop, Valentin Cristea, and Leonard Barolli. "Evaluation of intra-group optimistic data replication in P2P groupware systems." Concurrency and Computation: Practice and Experience 27, no. 4 (2015): 870-881, ISSN: 1532-0626, doi:10.1002/cpe.2836
10. Alexandra Olteanu, Florin Pop, Ciprian Dobre, Valentin Cristea, A dynamic rescheduling algorithm for resource management in large scale dependable distributed systems, Computers & Mathematics with Applications, Volume 63, Issue 9, May 2012, pp. 1409-1423, ISSN 0898-1221, doi: 10.1016/j.camwa.2012.02.066.
11. Nik Bessis, Stelios Sotiriadis, Fatos Xhafa, Florin Pop, and Valentin Cristea. 2012. Meta-scheduling issues in interoperable HPCs, grids and clouds. Int. J. Web Grid Serv. 8, 2 (August 2012), 153-172. DOI=10.1504/IJWGS.2012.048403 <http://dx.doi.org/10.1504/IJWGS.2012.048403>, ISSN: 1741-1106
12. Valentin Cristea, Catalin Leordeanu, Florin Pop, Ciprian Dobre, E-Service Security, Proceedings of the Romanian Academy, Series A, Vol.13, Number 2/2012, pp. 149-156, ISSN: 1454-9069
13. Florin Pop, Valentin Cristea, Scheduling Optimization based on Resources State Prediction in Large Scale Distributed Systems, Control Engineering and Applied Informatics Journal, Vol. 13, No. 4, pp.: 32-41, ISSN: 1454-8658, 2011
14. Radu-Ioan Ciobanu, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Interest-Awareness in Data Dissemination for Opportunistic Networks, in Ad Hoc Networks (ISSN: 1570-8705), Elsevier (online), 2014, Volume 25, Part B, pp. 330-345, February 2015 (DOI: 10.1016/j.adhoc.2014.07.004).
15. R.-I. Ciobanu, C. Dobre, M. Dascalu, S. Trausan-Matu, V. Cristea, SENSE: A Collaborative Selfish Node Detection and Incentive Mechanism for Opportunistic Networks, in Journal of Network and Computer Applications (JNCA) (ISSN: 1084-8045), Accepted for publication 2014.
16. V. Cristea, "Conception and design of parallel and distributed applications" in Proceedings of the Romanian Academy Series A, Vol 5, No 1, January-April 2004, pp 73-80

17. Almasi, AdelaDiana; Wozniak, Stanislaw; Cristea, Valentin; Iusuf Leblebici, Ton Engbersen. Review of advances in neural networks: Neural design technology stack NEUROCOMPUTING 174:367-376 · August 2015, Proceedings of ELM-2014 Volume 1, pp.367-376

Articole in volumele unor conferinte indexate ISI

1. Horelu, Adriana; Leordeanu, Catalin; Apostol, Elena; Dan Huru; Mariana Mocanu; Valentin Cristea. Forecasting Techniques for Time Series from Sensor Data, in proceedings IEEE 2015 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pp 261-264, 2015
2. Bosilca, A., Nita, M. C., Pop, F., & Cristea, V. (2014, September). Cloud simulation under fault constraints. In Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on (pp. 341-348). IEEE
3. 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
4. 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
5. 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
6. 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
7. 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 Chappelet, Marijn Janssen, and Hans J. Scholl (Eds.). Springer-Verlag, Berlin, Heidelberg, 363-374, <http://dl.acm.org/citation.cfm?id=1887132.1887169>
8. 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>
9. 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
10. 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>
11. 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
12. 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
13. 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
14. 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 (ISPD '09). IEEE Computer Society, Washington, DC, USA, 241-244. DOI=10.1109/ISPD.2009.38
15. 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
16. 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
 17. 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
 18. 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
 19. 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
 20. 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
 21. 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
 22. 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
 23. 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
 24. 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
 25. 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
 26. 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
 27. Florin Pop, Ciprian Dobre, Gavril 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
 28. 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
 29. Marcela S. Boboila, George V. Iordache, Florin Pop, and Valentin Cristea. 2006. A Framework for Scheduling Image Processing Applications in MedioGRID. In Proceedings of the Eighth International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '06). IEEE Computer Society, Washington, DC, USA, 303-308. DOI=10.1109/SYNASC.2006.2

30. Ovidiu Muresan, Florin Pop, Dorian Gorgan, and Valentin Cristea. 2006. Satellite Image Processing Applications in MedioGRID. In Proceedings of the Proceedings of The Fifth International Symposium on Parallel and Distributed Computing (ISPDC '06). IEEE Computer Society, Washington, DC, USA, 253-262. DOI=10.1109/ISPDC.2006.42
31. Radu-Ioan Ciobanu, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, ONSIDE: Socially-Aware and Interest-Based Dissemination in Opportunistic Networks, in Proc. of 6th IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2014), IEEE/IFIP Network Operations and Management Symposium (NOMS 2014), Krakow, Poland, pp.1-6, May 2014.
32. Valeriu-Daniel Stanciu, Ciprian Dobre, Valentin Cristea, Context-Based Service For Intelligent Public Transportation Systems, in Proc. of International Workshop on Autonomic Distributed Systems (ADiS 2014), 8th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS 2014), Birmingham, UK, pp. 353-358, July 2014.
33. R.-I. Ciobanu, C. Dobre, M. Dascalu, S. Trausan-Matu, V. Cristea, Collaborative Selfish Node Detection with an Incentive Mechanism for Opportunistic Networks, in Proc. of 5th IFIP/IEEE International Workshop on Management of the Future Internet (IFIP/IEEE ManFI 2013), IFIP/IEEE International Symposium on Integrated Network Management (IM 2013), Ghent, Belgium, pp. 1161-1166, May 2013.
34. R.-I. Ciobanu, C. Dobre, V. Cristea, Reducing Congestion for Routing Algorithms in Opportunistic Networks with Socially-Aware Node Behavior Prediction, in Proc. of 2013 IEEE 27th International Conference on Advanced Information Networking and Applications (AINA'13), Barcelona, Spain, pp. 554-561, 2013.
35. R. I. Ciobanu, C. Dobre, V. Cristea, Social aspects to support opportunistic networks in an academic environment, in Proc. of 11th international conference on Ad-hoc, Mobile, and Wireless Networks (ADHOC-NOW'12), Xiang-Yang Li, Symeon Papavassiliou, and Stefan Ruehrup (Eds.). Springer-Verlag, Berlin, Heidelberg, pp. 69-82, 2012. BDI: ACM Digital Library.
36. Gainaru, C. Dobre, V. Cristea, A Realistic Mobility Model based on Social Networks for the Simulation of VANETs, in Proc. of 2009 IEEE 69th Vehicular Technology Conference (VTC2009-Spring), Barcelona, Spain, pp. 1-5, April 2009.
37. Marin, C. Vlaicu, A. Vita, C. Dobre, V. Cristea, An eFramework to optimize public administration services, in Proc. of 2009 Second International Conference on Developments in eSystems Engineering (DeSE 2009), Abu Dhabi, UAE, pp. 233-239, December 2009.
36. Costan, C. Dobre, V. Cristea, R. Voicu, A Monitoring Architecture for High-Speed Networks in Large Scale Distributed Collaborations, in Proc. of 7th International Symposium on Parallel and Distributed Computing (ISPDC'08), Krakow, Polonia, pp. 409-416, July 2008.
37. Dobre, C. Stratan, V. Cristea, Realistic simulation of large scale distributed systems using monitoring, in Proc. of 7th International Symposium on Parallel and Distributed Computing (ISPDC'08), Krakow, Polonia, pp. 434-438, July 2008.
38. Dobre, V. Cristea, A Simulation Model for Large Scale Distributed Systems, in Proc. of 4th International Conference on Innovations in Information Technology (Innovations'07), Dubai, United Arab Emirates, pp. 526-530, November 2007.
39. Neagoe, Teodor; Hamdi, Maher; Cristea, Valentin. Frequency compensated hardware IEEE1588 implementation, IEEE International Symposium on Industrial Electronics, Montreal, CANADA, JUL 09 13, 2006 Vol. 1, pp 240245, 2006 ISBN 1-4244-0496-7
40. Neagoe, Teodor; Cristea, Valentin; Banica, Logica. NTP versus PTP in computer networks clock synchronization, IEEE International Symposium on Industrial Electronics, Montreal, CANADA, JUL 09 13, 2006, Vols 17 317322 Published: 2006, ISSN 2163-5137, ISBN 1-4244-0496-7
41. V. Gradinescu, C. Gorgorin, Raluca Diaconescu, V. Cristea, L. Iftode Adaptive Traffic Lights Using Car-to-Car Communication Proceedings IEEE 65th Vehicular Technology Conference, 22-24 April 2007, Dublin, pp 21-25, ISSN : 1550-2252, Print ISBN: 1-4244-0266-2, DOI: 10.1109/VETECS.2007.17
42. Gorgorin, Cristian; Gradinescu, Victor; Diaconescu, Raluca; Cristea, Valentin; Iftode, Liviu. An integrated vehicular and network simulator for vehicular adhoc networks. European Simulation and Modelling Conference (ESM 2006) Toulouse, FRANCE OCT 23 25, 2006 Pages: 142-149, 2006
43. Bongio, J. van Bruggen, S. Ceri, V. Cristea, P. Dolog, A. Hoffmann, Maristella Matera, Marzia Mura, A. Taddeo, X. Zhou, Larissa Zoni, "COOPER: Towards A Collaborative Open Environment of Project-Centred Learning", in Lecture Notes in Computer Science, Springer Vol. 4227 "Innovative Approaches for Learning and Knowledge Sharing" W. Nejdl, K. Tochtermann (Eds.), proceedings EC-TEL 2006, Crete, Greece, Oct. 2006, pp 561-566, doi=10.1.1.148.4367
44. V. Cristea, S. Trausan-Matu, O. Udrea, "Collaborative virtual environment with collaborative services", Euromedia 2003, Plymouth, UK, April 14-16, 2003, pp 113-117

45. V. Cristea, S. Trausan-Matu, O. Udrea "Adapting e-Learning services to the demands of SMEs", Proceedings of the CE2003, Madeira Island, Portugal, 26-31 July 2003
46. Valentin Cristea. "A Collaborative Environment for High Performance Computing" in Advanced Environments, Tools, and Applications for Cluster Computing, NATO Advanced Research Workshop, IWCC 2001, Mangalia, Romania, September 2001 Revised Papers, Springer- Verlag 2002, pp 47-60
47. G.Godza, V.Cristea. "Comparative Study of COW and SMP Computer Configurations", Proceedings of the International Conference on Parallel Computing in Electrical Engineering - PARELEC 2002, IEEE Computer Society, Los Alamos, California, pp 205-210
48. V. Cristea, G. Godza. Genetic Algorithms and Intrinsic Parallel Characteristics In Proc. of Congress on Evolutionary Computation (CEC2000), La Jolla, San Diego, CA, 16-19 iulie, 2000, p.431-436
49. Elena Apostol, Iulia Baluta, Alexandru Gorgoi, Valentin Cristea, A Parallel Genetic Algorithm Framework for Cloud Computing Applications, First International Workshop, ARMS-CC 2014, held in Conjunction with ACM Symposium on Principles of Distributed Computing, PODC 2014, 978-3-319-13463-5, Springer
50. Dutu, Cristina and Apostol, Elena and Leordeanu, Catalin and Cristea, Valentin. Efficient Service Management for Multimedia Sessions in Hybrid Clouds. In The Fourth International Workshop on Cloud Computing, Services and Interoperability (CCSI 2013), in conjunction with the AINA-2013 conference. March 2013
51. Elena Apostol, Valentin Cristea, "Mobility management for multimedia services in heterogeneous environments", International Journal of Web and Grid Services, Volume 8, Number 3, September 2012, pp. 266-278(13). DOI=10.1504/IJWGS.2012.049170 <http://dx.doi.org/10.1504/IJWGS.2012.049170>, ISSN(Online):1741-1114 ISSN(Print):1741-1106
52. Leordeanu, Catalin and Ciocan, Dragos and Cristea, Valentin. Maintaining the confidentiality of archived data. In Proceedings of the Romanian Academy, Series A, Special issue: Cryptology Science. September 2013
53. Ionut Ungureanu, Catalin Leordeanu and Valentin Cristea, Grid-Aware Intrusion Detection System using Gossip Algorithms, Proc. of 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2010
54. Cirneci, Andreea; Boboc, Stefan; Leordeanu, Catalin; Cristea, Valentin ;Cristian, Estan. Netpy: Advanced Network Traffic Monitoring, 1st International Conference on Intelligent Networking and Collaborative Systems (INCOS 2009) Pages: 253254 Published: 2009

Articole in reviste indexate in alte baze de date internationale

1. MA VASILE, POP Florin, N Mihaela-Cătălina, V CRISTEA. MLBox: Machine learning box for asymptotic scheduling, Information Sciences journal, Elsevier 2017
2. RI Ciobanu, RC Marin, C Dobre, V Cristea. Trust and reputation management for opportunistic dissemination, in Pervasive and Mobile Computing journal, 2016
3. C Negru, M Mocanu, V Cristea, S Sotiriadis, N Bessis. Analysis of power consumption in heterogeneous virtual machine environments, in Soft Computing journal, pages 1-12, 2016
4. Mihaela-Catalina Nita, Florin Pop, Mariana Mocanu, Valentin Cristea, FIM-SIM: Fault-Injection Module for CloudSim based on Statistical Distributions, Journal of Telecommunications and Information Technology, ISSN: 1509-4553
5. Stelios Sotiriadis, Eleana Asimakopoulou, Nik Bessis, Florin Pop, Valentin Cristea, Performance Evaluation of Interoperable Micro-Clouds. In Procedia Computer Science (J. Liebowitz). Elsevier Inc., vol. 21, 1600 John F Kennedy Boulevard Suite 1800 Philadelphia PA 19103-2879 USA, pp. 99--106, September 2013
6. Catalin Negru and Florin Pop and Ciprian Dobre and Valentin Cristea. Performance analysis of Lustre file systems based on benchmarking for a cluster system. In UPB Scientific Bulletin, Series C (Ecaterina ANDRONESCU). PolitehnicaPRESS, vol. 75, no. 1, ISSN 1454-234X, Splaiul Independenței 313, sector 6, Cod 060042, București, ROMANIA, pp. 27--36, March 2013
7. Ciprian Dobre, Florin Pop, Valentin Cristea. The EU-Services Directive: An eFramework to Optimize Public Administration. In International Journal of Distributed Systems and Technologies (Nik Bessis). IGI Global, vol. 4, no. 3, ISSN 1947-3532, 701 E. Chocolate, Ave. Hershey, PA 17033, USA , pp. 1--16, July 2013
8. Lavinia Andrei, Ciprian Dobre, Florin Pop and Valentin Cristea. "A Failure Detection System for Large Scale Distributed Systems," International Journal of Distributed Systems and Technologies (IJ DST) 2 (2011): 3, accessed (January 12, 2013), doi:10.4018/ijdst.2011070105
9. Visan Andreea, Mihai Istin, Florin Pop and Valentin Cristea. "Bio-Inspired Techniques for Resources State Prediction in Large Scale Distributed Systems," International Journal of Distributed Systems and Technologies (IJ DST) 2 (2011): 3, accessed (January 12, 2013), doi:10.4018/ijdst.2011070101

10. Florin Pop, Marius-Viorel Grigoras, Ciprian Dobre, Ovidiu Achim, Valentin Cristea. Load-Balancing Metric for Service Dependability in Large Scale Distributed Environments, in Scalable Computing: Practice and Experience (SCPE) (ISSN: 1895-1767), 12(4), pp. 391–401, 2011
11. Valentin Cristea, Ciprian Dobre, Alexandru Costan, Florin Pop. Middleware and architectures for space-based and situated computing, in International Journal of Space-Based and Situated Computing (IJSSC), ISSN: 2044-4893, vol. 1, issue 1, pp. 43-58, 2011
12. Valentin Cristea, Ciprian Dobre, Florin Pop, Corina Stratan, Alexandru Costan, Catalin Leordeanu, and Eliana Tirsa. 2011. A dependability layer for large-scale distributed systems. *Int. J. Grid Util. Comput.* 2, 2 (June 2011), 109-118.
13. Florin Pop, Ciprian Dobre, Corina Stratan, Alexandru Costan, and Valentin Cristea. 2010. Dynamic meta-scheduling architecture based on monitoring in distributed systems. *Int. J. Autonomic Comput.* 1, 4 (December 2010), 328-349.
14. Ciprian Dobre, Florin Pop, Valentin Cristea. Simulation Framework for the Evaluation of Dependable Distributed Systems, in Scalable Computing: Practice and Experience, Scientific International Journal for Parallel and Distributed Computing (SCPE) (ISSN: 1097-2803), pp. 13-23, Vol. 10, Nr. 1/2009, 2009
15. Florin Pop and Valentin Cristea. 2009. Decentralised meta-scheduling strategy in Grid environments. *Int. J. Grid Util. Comput.* 1, 3 (August 2009), 185-193.
16. Iordache, George V., Marcela S. Boboila, Florin Pop, Corina Stratan, and Valentin Cristea. "A decentralized strategy for genetic scheduling in heterogeneous environments." *Multiagent and Grid Systems* 3, no. 4 (2007): 355-367.

Articole in Conferinte Indexate BDI

1. VC Bojan, IG Raducu, F Pop, M Mocanu, V Cristea. Architecture design of pattern detection system for Smart cities datasets in Proceedings of 2016 IEEE 12th International conference on Intelligent Computer Communication and Processing (ICCP), pages 403-408, 2016
2. B Mocanu, V Mureean, M Mocanu, V Cristea. Cloud live streaming System based on Auto-adaptive Overlay for Cyber Physical Infrastructure, in Proceedings of the Third International ACM Workshop on Adaptive Resource Management and Scheduling for Cloud Computing, pages 52-58, 2016
3. VC Ozunu, CC Pîrvu, C Leordeanu, V Cristea. Distributed Platform for the Analysis of Cryptographic Algorithms, in 2016 IEEE 10th International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS), pages 296-301, 2016
4. C Negru, F Pop, M Mocanu, V Cristea, A Hangan, L Vacariu. Cost-aware cloud storage service allocation for distributed data gathering in 2016 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pages 1-5, 2016
5. MC Nita, M Vasile, F Pop, V Cristea. Workflow Scheduling Techniques for Big Data Platforms, chapter in Resource Management for Big Data Platforms, pages 35-53, 2016
6. Mocanu, Bogdan, Florin Pop, Alexandra Mihaita Mocanu, Ciprian Dobre, and Valentin Cristea. "SPIDER: A Bio-inspired Structured Peer-to-Peer Overlay for Data Dissemination." In 2015 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), pp. 291-295. IEEE, 2015.
7. Raducu, Ionut-Gabriel, Valentina-Camelia Bojan, Florin Pop, Mariana Mocanu, and Valentin Cristea. "Real-Time Alert Service for Cyber-Infrastructure Environments." In 2015 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), pp. 296-303. IEEE, 2015.
8. Mihaita, Alexandra, Ciprian Dobre, Bogdan Mocanu, Florin Pop, and Valentin Cristea. "Analysis of Security Approaches for Vehicular Ad-Hoc Networks." In 2015 10th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), pp. 304-309. IEEE, 2015.
9. Negru, Catalin, Florin Pop, Ovidiu Cristian Marcu, Mariana Mocanu, and Valentin Cristea. "Budget constrained selection of cloud storage services for advanced processing in datacenters." In RoEduNet International Conference-Networking in Education and Research (RoEduNet NER), 2015 14th, pp. 158-162. IEEE, 2015.
10. Ifrim, Claudia, Florin Pop, Mariana Mocanu, and Valentin Cristea. "AgileDBLP: A Search-Based Mobile Application for Structured Digital Libraries." In Semantic Keyword-based Search on Structured Data Sources, pp. 88-93. Springer International Publishing, 2015.
11. Bojan, Valentina-Camelia, Ionut-Gabriel Raducu, Florin Pop, Mariana Mocanu, and Valentin Cristea. "Cloud-based service for time series analysis and visualisation in Farm Management System." In Intelligent Computer Communication and Processing (ICCP), 2015 IEEE International Conference on, pp. 425-432. IEEE, 2015.

12. Mocanu, Mariana, Valentin Cristea, Catalin Negru, Florin Pop, Vlad Ciobanu, and Ciprian Dobre. "Cloud-Based Architecture for Farm Management." In Control Systems and Computer Science (CSCS), 2015 20th International Conference on, pp. 814-819. IEEE, 2015.
13. Mahu, Daniel, Vlad Dumitrel, and Florin Pop. "Secure Entropy Gatherer." In Control Systems and Computer Science (CSCS), 2015 20th International Conference on, pp. 185-190. IEEE, 2015.
14. Nicolae, Andrei Alexandru, Catalin Negru, Florin Pop, Mariana Mocanu, and Valentin Cristea. "Hybrid Algorithm for Workflow Scheduling in Cloud-Based Cyberinfrastructures." In Network-Based Information Systems (NBIS), 2014 17th International Conference on, pp. 221-228. IEEE, 2014.
15. Pop, Florin, Oana-Maria Citoteanu, Ciprian Dobre, and Valentin Cristea. "Resource Trust Management in Auto-Adaptive Overlay Network for Mobile Cloud Computing." In Parallel and Distributed Computing (ISPD), 2014 IEEE 13th International Symposium on, pp. 162-169. IEEE, 2014
16. Pop, F., Ciolofan, S., Negru, C., Mocanu, M., & Cristea, V. (2014). A Bio-Inspired Prediction Method for Water Quality in a Cyber-Infrastructure Architecture. 2014 Eighth International Conference on Complex, Intelligent and Software Intensive Systems, 367–372
17. Serbanescu, V., Pop, F., Cristea, V., & Antoniu, G. (2014, May). Architecture of Distributed Data Aggregation Service. In Advanced Information Networking and Applications (AINA), 2014 IEEE 28th International Conference on (pp. 727-734). IEEE
18. Alexandru Ionut Dospinescu, Florin Pop, Valentin Cristea, Web Experience Enhancer Based on a Fast Hierarchical Document Clustering Approach, The 13th International Semantic Web Conference (ISWC 2014), Surfacing the Deep and the Social Web (SDSW), in press, CEUR-WS.org
19. Radu-Ioan Tutueanu, Florin Pop, Mihaela-Andreea Vasile, Valentin Cristea. Scheduling Algorithm Based on Agreement Protocol for Cloud Systems. In 13th International Conference, ICA3PP 2013, Vietri sul Mare, Italy, December 18-20, 2013, Proceedings, Part II. Springer Berlin Heidelberg, ISBN 978-3-319-03888-9, ISSN 0302-9743, pp. 94--101, December 2013
20. Mihaela-Andreea Vasile, Florin Pop, Radu-Ioan Tutueanu, Valentin Cristea, Valentin. HySARC2: Hybrid Scheduling Algorithm Based on Resource Clustering in Cloud Environments. In 13th International Conference, ICA3PP 2013, Vietri sul Mare, Italy, December 18-20, 2013, Proceedings, Part I. Springer Berlin Heidelberg, ISBN 978-3-319-03858-2, ISSN 0302-9743, pp. 416--425, December 2013z
21. Catalin Negru, Florin Pop, Valentin Cristea, Nik Bessis, Jing Li. Energy Efficient Cloud Storage Service: Key Issues and Challenges. In 2013 Fourth International Conference on Emerging Intelligent Data and Web Technologies. IEEE Computer Society, ISBN 978-1-4799-2141-6, Washington, DC, USA, pp. 763--766, September 2013
22. Dragoş Diaconescu, Florin Pop, Valentin Cristea. Energy-aware Placement of VMs in a Datacenter. In Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on. IEEE Computer Society, ISBN 978-1-4799-1493-7, Washington, DC, USA, pp. 313--318, September 2013
23. Florin Pop, Maria-Alexandra Lovin, Catalin Negru, Valentin Cristea, Nik Bessis, and Stelios Sotiriadis. 2012. Grid Configuration and Application Monitoring in GridGain. In Proceedings of the 2012 Fourth International Conference on Intelligent Networking and Collaborative Systems (INCOS '12). IEEE Computer Society, Washington, DC, USA, 155-161.
24. Florin Pop, Maria-Alexandra Lovin, Valentin Cristea, Nik Bessis, and Stelios Sotiriadis. 2012. Applications Monitoring for Self-Optimization in GridGain. In Proceedings of the 2012 Sixth International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS) (CISIS '12). IEEE Computer Society, Washington, DC, USA, 755-760.
25. Nik Bessis, Stelios Sotiriadis, Florin Pop, and Valentin Cristea. 2012. Optimizing the Energy Efficiency of Message Exchanging for Service Distribution in Interoperable Infrastructures. In Proceedings of the 2012 Fourth International Conference on Intelligent Networking and Collaborative Systems (INCOS '12). IEEE Computer Society, Washington, DC, USA, 105-112. [BEST PAPER AWARD]
26. Nik Bessis, Stelios Sotiriadis, Florin Pop, and Valentin Cristea. 2012. An Architectural Strategy for Meta-scheduling in Inter-clouds. In Proceedings of the 2012 26th International Conference on Advanced Information Networking and Applications Workshops (WAINA '12). IEEE Computer Society, Washington, DC, USA, 1184-1189.
27. Vlad Ciobanu, Decebal Popescu, Ciprian Dobre, Florin Pop, and Valentin Cristea. 2012. The EU-Services Directive: An E-framework to Optimize Public Administration. In Proceedings of the 2012 Third International Conference on Emerging Intelligent Data and Web Technologies (EIDWT '12). IEEE Computer Society, Washington, DC, USA, 336-341.
28. Vlad Nicolae Serbanescu, Florin Pop, Valentin Cristea, and Ovidiu-Marian Achim. 2012. Web Services Allocation Guided by Reputation in Distributed SOA-Based Environments. In Proceedings of the 2012 11th International Symposium on Parallel and Distributed Computing (ISPD '12). IEEE Computer Society, Washington, DC, USA, 127-134.

29. Catalin Fratila, Ciprian Dobre, Florin Pop, and Valentin Cristea. 2012. A Transportation Control System for Urban Environments. In Proceedings of the 2012 Third International Conference on Emerging Intelligent Data and Web Technologies (EIDWT '12). IEEE Computer Society, Washington, DC, USA, 117-124.
30. Ciprian Dobre, Adriana Szekeres, Florin Pop, Valentin Cristea, Intelligent Traffic Lights to Reduce Vehicle Emissions, Proceedings 26th European Conference on Modelling and Simulation ©ECMS, 2012, Klaus G. Troitzsch, Michael öhring, Ulf Lotzmann (Editors), ISBN: 978-0-9564944-4-3 / ISBN: 978-0-9564944-5-0 (CD)
31. Alina-Diana Potlog, Fatos Xhafa, Florin Pop, and Valentin Cristea. 2011. Evaluation of Optimistic Replication Techniques for Dynamic Files in P2P Systems. In Proceedings of the 2011 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '11). IEEE Computer Society, Washington, DC, USA, 259-265.
32. Andreea Visan, Florin Pop, and Valentin Cristea. 2011. Decentralized Trust Management in Peer-to-Peer Systems. In Proceedings of the 2011 10th International Symposium on Parallel and Distributed Computing (ISPDC '11). IEEE Computer Society, Washington, DC, USA, 232-239.
33. Bogdan Ghit, Florin Pop, and Valentin Cristea. 2011. Using Bio-inspired Models to Design Peer-to-Peer Overlays. In Proceedings of the 2011 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '11). IEEE Computer Society, Washington, DC, USA, 248-252.
34. Ciprian Dobre, Florin Pop, Valentin Cristea, Johanna Kolodziej, Advanced Simulation Model for Dependable Distributed Systems, ECMS 2011, Krakow, Poland, 2011, pp. 511-517
[Google Scholar, http://www.scs-europe.net/conf/ecms2011/ecms2011%20accepted%20papers/hipmos_ECMS_0041.pdf]
35. Cristian-Mircea Dinu, Florin Pop, and Valentin Cristea. 2011. Pattern Detection Model for Monitoring Distributed Systems. In Proceedings of the 2011 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '11). IEEE Computer Society, Washington, DC, USA, 268-275.
36. Florin Pop, Alexandra Arcalianu, Ciprian Dobre, and Valentin Cristea. Enhanced security for monitoring services in large scale distributed systems. In Intelligent Computer Communication and Processing (ICCP), 2011 IEEE International Conference on, vol., no., pp.549-556, 25-27 Aug. 2011
37. Irina Constantinescu, Forin Pop, and Valentin Cristea. 2011. Performance Analysis of Workflows for Service Oriented Computing. In Proceedings of the 2011 International Conference on Emerging Intelligent Data and Web Technologies (EIDWT '11). IEEE Computer Society, Washington, DC, USA, 186-191.
38. Mihai Istin, Florin Pop, and Valentin Cristea. 2011. HIGA: Hybrid Immune - Genetic Algorithm for Dependent Task Scheduling in Large Scale Distributed Systems. In Proceedings of the 2011 10th International Symposium on Parallel and Distributed Computing (ISPDC '11). IEEE Computer Society, Washington, DC, USA, 282-287.
39. Nik Bessis, Stelios Sotiriadis, Valentin Cristea, and Florin Pop. 2011. Modelling Requirements for Enabling Meta-scheduling in Inter-Clouds and Inter-Enterprises. In Proceedings of the 2011 Third International Conference on Intelligent Networking and Collaborative Systems (INCOS '11). IEEE Computer Society, Washington, DC, USA, 149-156.
40. Ovidiu-Marian Achim, Florin Pop, and Valentin Cristea. 2011. Reputation Based Selection for Services in Cloud Environments. In Proceedings of the 2011 14th International Conference on Network-Based Information Systems (NBIS '11). IEEE Computer Society, Washington, DC, USA, 268-273.
41. Ovidiu-Marian Achim, Florin Pop, and Valentin Cristea. 2011. Dynamic Web Services Selection in Service-Oriented Distributed Environments. In Proceedings of the 2011 International Conference on Emerging Intelligent Data and Web Technologies (EIDWT '11). IEEE Computer Society, Washington, DC, USA, 165-171.
42. Stefan Nour, Raluca Negru, Fatos Xhafa, Florin Pop, Ciprian Dobre, and Valentin Cristea. 2011. Middleware for Data Sensing and Processing in VANETs. In Proceedings of the 2011 International Conference on Emerging Intelligent Data and Web Technologies (EIDWT '11). IEEE Computer Society, Washington, DC, USA, 42-48.
43. Adrian Boteanu, Ciprian Dobre, Florin Pop, and Valentin Cristea. 2010. Simulator for fault tolerance in large scale distributed systems. In Proceedings of the Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing (ICCP '10). IEEE Computer Society, Washington, DC, USA, 443-450.
44. Alexandra Olteanu, Florin Pop, Ciprian Dobre, and Valentin Cristea. 2010. An adaptive scheduling approach in distributed systems. In Proceedings of the Proceedings of the 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing (ICCP '10). IEEE Computer Society, Washington, DC, USA, 435-442.
45. Alexandru Costan, Ciprian Dobre, Florin Pop, Catalin Leordeanu, and Valentin Cristea. 2010. A fault tolerance approach for distributed systems using monitoring based replication. In Proceedings of the Proceedings of the

- 2010 IEEE 6th International Conference on Intelligent Computer Communication and Processing (ICCP '10). IEEE Computer Society, Washington, DC, USA, 451-458.
46. Alexandru Costan, Florin Pop, Ciprian Dobre, and Valentin Cristea. 2010. A Workflow Management Platform for Scientific Applications in Grid Environments. In Proceedings of the 2010 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC '10). IEEE Computer Society, Washington, DC, USA, 261-268.
 47. Andreea Visan, Mihai Istin, Florin Pop, and Valentin Cristea. 2010. Automatic Control of Distributed Systems Based on State Prediction Methods. In Proceedings of the 2010 International Conference on Complex, Intelligent and Software Intensive Systems (CISIS '10). IEEE Computer Society, Washington, DC, USA, 502-507.
 48. Andreea Visan, Mihai Istin, Florin Pop, Fatos Xhafa, and Valentin Cristea. 2010. Peer Interest-based Discovery for Decentralized Peer-to-Peer Systems. In Proceedings of the 2010 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '10). IEEE Computer Society, Washington, DC, USA, 363-368.
 49. Andrei Lavinia, Ciprian Dobre, Florin Pop, and Valentin Cristea. 2010. A Failure Detection System for Large Scale Distributed Systems. In Proceedings of the 2010 International Conference on Complex, Intelligent and Software Intensive Systems (CISIS '10). IEEE Computer Society, Washington, DC, USA, 482-489.
 50. Bogdan Eremia, Ciprian Dobre, Florin Pop, Alexandru Costan, and Valentin Cristea. 2010. Simulation Model and Instrument to Evaluate Replication Techniques. In Proceedings of the 2010 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '10). IEEE Computer Society, Washington, DC, USA, 542-547.
 51. Bogdan Ghit, Florin Pop, and Valentin Cristea. 2010. Epidemic-Style Global Load Monitoring in Large-Scale Overlay Networks. In Proceedings of the 2010 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '10). IEEE Computer Society, Washington, DC, USA, 393-398.
 52. Ciprian Dobre, Florin Pop, and Valentin Cristea. 2010. A Fault-tolerant Approach to Storing Objects in Distributed Systems. In Proceedings of the 2010 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '10). IEEE Computer Society, Washington, DC, USA, 1-8. [BEST PAPER AWARD].
 53. Mihai Istin, Andreea Visan, Florin Pop, Ciprian Dobre, and Valentin Cristea. 2010. Near-Optimal Scheduling Based on Immune Algorithms in Distributed Environments. In Proceedings of the 2010 International Conference on Complex, Intelligent and Software Intensive Systems (CISIS '10). IEEE Computer Society, Washington, DC, USA, 439-444.
 54. Mihai Istin, Andreea Visan, Florin Pop, and Valentin Cristea. 2010. Decomposition Based Algorithm for State Prediction in Large Scale Distributed Systems. In Proceedings of the 2010 Ninth International Symposium on Parallel and Distributed Computing (ISPDC '10). IEEE Computer Society, Washington, DC, USA, 17-24.
 55. Mihai-Dorin Istin, Andreea Visan, Florin Pop, and Valentin Cristea. 2010. SOPSys: Self-Organizing Decentralized Peer-to-Peer System Based on Well Balanced Multi-Way Trees. In Proceedings of the 2010 International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC '10). IEEE Computer Society, Washington, DC, USA, 369-374.
 56. 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.
 57. 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.
 58. 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.
 59. 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.
 60. Ciprian Dobre, Florin Pop, and Valentin Cristea. 2008. A Simulation Framework for Dependable Distributed Systems. In Proceedings of the 2008 International Conference on Parallel Processing - Workshops (ICPPW '08). IEEE Computer Society, Washington, DC, USA, 181-187.
 61. Radu-Ioan Ciobanu, Radu-Corneliu Marin, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, George Mastorakis, Opportunistic Dissemination using Context-Based Data Aggregation over Interest Spaces, in Proc. of IEEE International Conference on Communications (ICC 2015), London, UK, pp. 1219-1225, June 2015.

62. Mihai Ciocan, Ciprian Dobre, Valentin Cristea, Constandinos X. Mavromoustakis, George Mastorakis, Analysis of Vehicular Storage and Dissemination Services based on Floating Content, in Proc. of International Workshop on Enhanced Living Environments (ELEMENT 2014), 6th International Conference on Mobile Networks and Management (MONAMI 2014), Wuerzburg, Germany, pp. 387-400, September 2014.
63. Valeriu-Daniel Stanciu, Ciprian Dobre, Valentin Cristea, Context-Based Service For Intelligent Public Transportation Systems, in International Journal of Adaptive and Innovative Systems (ISSN: 1740-2107), Vol. 2, Issue 2, pg. 15, 2015.
64. R.-I. Ciobanu, C. Dobre, V. Cristea, SPRINT: Social Prediction-Based Opportunistic Routing, in Proc. of 7th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (IEEE AOC 2013), IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2013), Madrid, Spain, pp. 1-7, (DOI: 10.1109/WoWMoM.2013.6583442) May 2013.
65. E. Burceanu, C. Dobre, V. Cristea, A. Costan, G. Antoniu, Distributed Data Storage in Support for Context-Aware Applications, in Proc. of 12th International Symposium on Parallel and Distributed Computing (ISPDC 2013), Bucharest, Romania, pp. 93-100, June 2013.
66. E. Asimakopoulou, S. Sotiriadis, N. Bessis, C. Dobre, V. Cristea, Centralized Micro-Clouds: An infrastructure For Service Distribution In Collaborative Smart Devices, in Proc. of 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN 2013), Procedia Computer Science Volume 21, Elsevier (Ed.), Niagara Falls, Ontario, Canada, pp. 83-90, (DOI: 10.1016/j.procs.2013.09.013) 2013.
67. E. Burceanu, C. Dobre, V. Cristea, Adaptive Distributed Data Storage for Context-Aware Applications, in Journal of Telecommunications and Information Technology (ISSN: 1509-4553), Vol. 4/2013, pp. 58-69, 2013.
68. V. Cristea, C. Dobre, A. Costan, F. Pop, Middleware and architectures for space-based and situated computing, in International Journal of Space-Based and Situated Computing (IJSSC), vol. 1, issue 1, pp. 43-58, 2011. BDI: Academic OneFile, DBLP, GoogleScholar
69. Szekeres, S. H. Baranga, C. Dobre, V. Cristea, A Keyword Search Algorithm for Structured Peer-to-Peer Networks, in International Journal of Grid and Utility Computing (IJGUC) (ISSN: 1741-847X), Special Issue on Advances in P2P Computing and Applications, 2(3), pp. 204-214, 2011. BDI: ACM Digital Library
70. Dobre, A. Ichimescu, V. Cristea, Adaptive Traffic Optimization, in Proc. of Sixth International Conference on Complex, Intelligent and Software Intensive Systems (CISIS), Palermo, Italy, pp. 761-766, July 2012. BDI: IEEE Xplore Digital Library
71. Dobre, V. Cristea, L. Iftode, ILRSH: Intelligent Lane Reservation System for Highway(s), in Proc. of Sixth International Conference on Complex, Intelligent and Software Intensive Systems (CISIS), Palermo, Italy, pp. 747-754, July 2012. BDI: IEEE Xplore Digital Library
72. R. I. Ciobanu, C. Dobre, V. Cristea, D. Al-Jumeily, Social Aspects for Opportunistic Communication, in Proc. of 11th International Symposium on Parallel and Distributed Computing (ISPDC 2012), Munich, Germany, pp. 251-258, 2012. BDI: IEEE Xplore Digital Library
73. Dobre, V. Cristea. Simulation Analysis of CMS Data Replication and Production Activities, in Proc. of 4th International workshop on simulation and modelling of engineering & computational systems (SMECS 2011), 6th Intl. Conf. on P2P, Parallel, Grid, Cloud, and Internet Computing (3PGCIC 2011), Barcelona, Spain, pp. 372-377, October 2011. BDI: IEEE Xplore Digital Library
74. C. Dobre, F. Manea, V. Cristea, CAPIM: A Context-Aware Platform using Integrated Mobile Services, in Proc. of IEEE 7th International Conference on Intelligent Computer Communication and Processing (ICCP 2011), Cluj-Napoca, Romania, pp. 533-540, 2011. BDI: IEEE Xplore Digital Library
75. R.-I. Ciobanu, C. Dobre, V. Cristea, A Data Dissemination Algorithm for Opportunistic Networks, in Proc. of 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2011), Timisoara, Romania, pp. 299-305, 2011. BDI: IEEE Xplore Digital Library
76. C. Grosu, E.-D. Tirsa, C. Dobre, V. Cristea, M. I. Andreica. Scalable Chord-based, Cluster-enhanced Peer-to-Peer Architecture supporting Range Queries, in Proc. of 10th International Symposium on Parallel and Distributed Computing (ISPDC 2011), Cluj-Napoca, Romania, pp. 178-185, July 2011. BDI: IEEE Xplore Digital Library
77. M. Dascalu, C. Dobre, S. Trausan-Matu, V. Cristea, Beyond Traditional NLP: A Distributed Solution for Optimizing Chat Processing, in Proc. of 10th International Symposium on Parallel and Distributed Computing (ISPDC 2011), Cluj-Napoca, Romania, pp. 133-138, July 2011. BDI: IEEE Xplore Digital Library
78. Szekeres, S. H. Baranga, C. Dobre, V. Cristea, A Keyword Search Algorithm for Structured Peer-to-Peer Networks, in Proc. of 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2010), Timisoara, Romania, pp. 253-261, September 2010. BDI: IEEE Xplore Digital Library
79. Gosman, C. Dobre, V. Cristea, A Security Protocol for Vehicular Distributed Systems, in Proc. of 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2010), Timisoara, Romania, pp. 321-330, September 2010. BDI: IEEE Xplore Digital Library

80. Marin, C. Dobre, D. Popescu, V. Cristea, e-System for Automatic Data Migration, in Proc. of 1st Workshop on Software Services (WoSS), 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2010), Timisoara, Romania, pp. 479-485, September 2010. BDI: IEEE Xplore Digital Library
81. Marin, I. Constantinescu, C. Dobre, D. Boldeanu, V. Cristea, e-System for Public Administration Reporting Services, in Proc. of 2010 Developments in E-systems Engineering (DESE 2010), London, UK, pp. 249-253, September 2010. BDI: IEEE Xplore Digital Library
82. G.-C. Serban, A.-D. Dumitru, A. Marinescu, C. Dobre, V. Cristea, Routing Protocol for Urban Mobile Networks based on Geographical Location, in Proc. of 2010 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2010), Cluj-Napoca, Romania, pp. 479-483, August 2010. BDI: IEEE Xplore Digital Library
83. Nitu, R., Apostol, E., & Cristea, V. (2014, September). An improved GPU MapReduce framework for data intensive applications. In Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on (pp. 355-362). IEEE
84. Rotariu, Marian-Cristian and Apostol, Elena and Cristea, Valentin. High-Level GPU Multi-Purpose Profiler. In The Third International Workshop on the Middleware of Large Scale Distributed Systems (MiDiS 2013), in conjunction with the 3PGCIC-2013 conference, September 2013
85. Apostol, Elena and Cristea, Valentin. Virtual Resource Management for Data Intensive Applications in Cloud Infrastructures. In Buletin Stiintific UPB. 2013
86. Elena Apostol, Alexandru Gorunescu, Valentin Cristea, "Advanced Service Management and Visualization for Multiple-Cloud Environments," eidwt, pp.326-329, 2012 Third International Conference on Emerging Intelligent Data and Web Technologies, 2012 DOI Bookmark: <http://doi.ieeeecomputersociety.org/10.1109/EIDWT.2012.60> [IEEE Xplore, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6354765>]
87. Elena Apostol, Iulia Baluta, Alexandru Gorgoi, Valentin Cristea, "Efficient Manager for Virtualized Resource Provisioning in Cloud Systems", IEEE International Conference on Intelligent Computer Communication and Processing - ICCP11, Cluj, RO, August 2011
88. Elena Apostol, Valentin Cristea, "Multimedia Mobility Service across Heterogeneous Environments", The Second International Conference on Emerging Intelligent Data and Web Technologies - SeDiS-2011, Tirana, AL, September 2011
89. Elena Apostol, Catalin Leordeanu, Valentin Cristea, "Policy Based Resource Allocation in Cloud Systems", 3PGCIC-2011 6th International Conference on P2P, Parallel, Grid Cloud and Internet Computing – MiDiS-2011, Barcelona, ES, October 2011
90. Davidoaia, B., Leordeanu, C., & Cristea, V. (2014, September). Anonymity of web service invocations. In Intelligent Computer Communication and Processing (ICCP), 2014 IEEE International Conference on (pp. 369-376). IEEE.
Catalin Leordeanu, Silviu Grigore, Octavian Moraru, Valentin Cristea, Policy-based Cloud Management through Resource Usage Prediction, First International Workshop, ARMS-CC 2014, held in Conjunction with ACM Symposium on Principles of Distributed Computing, PODC 2014, 978-3-319-13463-5, Springer
91. Musca, Constantin and Ion, Ana and Leordeanu, Catalin and Cristea, Valentin. Secure access to cloud services. In The Third International Workshop on the Middleware of Large Scale Distributed Systems(MiDiS 2013), in conjunction with the 3PGCIC-2013 conference. September 2013
92. Catalin Leordeanu, Vlad Calina, Valentin Cristea. 2012. Scalable Failure Management for Peer-to-Peer Networks. In Proc. of Sixth International Conference on Complex, Intelligent and Software Intensive Systems (CISIS), Palermo, Italy, pp. 767 - 774, July 2012. [IEEE Xplore, http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=6245773&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D6245773]
93. Catalin Radu, Catalin Leordeanu, Valentin Cristea, Using Cell Processors for Intrusion Detection through Regular Expression Matching with Speculation, Proceedings of The Fifth International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS-2011)
94. Cristina Amza, Catalin Leordeanu and Valentin Cristea, "Hybrid Network Intrusion Detection", 2011 IEEE International Conference on Computer Communication and Processing (ICCP 2011), Cluj-Napoca, Romania, ISBN: 978-1-4577-1479-5, pages 503-510
95. Catalin Leordeanu, Levni Arif and Valentin Cristea, Correlation of Intrusion Detection Information in Grid Environments, Proceedings of the Fourth International Workshop on P2P, Parallel, Grid and Internet Computing (3PGIC-2010), held in conjunction with the CISIS-2010 Conference <http://www.lsi.upc.edu/~fatos/3PGIC-2010/>, pages 463-368, ISBN 978-0-7695-3967-6
96. Catalin Leordeanu, Thomas Ropars, Valentin Cristea and Christine Morin, Improving Grid Systems Reliability with a Failure History Service (poster), proceedings of CCGrid2010 - May 17-20, 2010, Melbourne, Australia

97. Catalin Leordeanu, Valentin Cristea, Thomas Ropars, Yvon Jegou and Christine Morin, Using a Failure History Service for Reliable Grid Node Information, pp: 37-45, 3PGCIC 2010, International Conference on, P2P, Paralel, Grid, Cloud and Internet Computing, ISBN 978-0-7695-4237-9
98. Mihaela Teler, Valentin Cristea. 2012. Securing Vehicular Networks Using Deterministic Schemes for Computing Trust. In Proceedings of the 2012 Fourth International Conference on Intelligent Networking and Collaborative Systems (INCOS '12). IEEE Computer Society, Washington, DC, USA, 155-161. [IEEE Xplore, <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6337922>]
99. Damian, A. Costan, V. Cristea, I. Legrand, A visualisation technique for network topology transformation within MonALISA monitoring framework, Int. J. Grid and Utility Computing, Vol. 2, No. 2, 119-129, ISSN 1741-847X, 2011
100. Adriana Draghici, Alexandru Costan, Valentin Cristea: Prediction of Distributed Systems State Based on Monitoring Data. In Proc. of ISPDC 2010, 173-180, Istanbul, Turkey, ISBN: 978-0-7695-4120-4.
101. Alexandru Costan, Adriana Draghici and Valentin Cristea, Prediction Strategies for Self-Adaptive Behavior in Distributed Systems, In Proc. of 3PGCIC2010, 30-36, Fukoka, Japan, ISBN: 978-0-7695-4237-9.
102. Alexandru Costan, Mugurel Ionut Andreica, Valentin Cristea, Costin Grigoras, A Solution for Fault-Tolerance Based on Adaptive Replication in MonALISA, In Proc. of 3PGCIC2010, 375-380, Fukoka, Japan, ISBN: 978-0-7695-4237-9.
103. Costin Ionita, Alexandru Costan, Valentin Cristea: Automatic Generation of Functional Workflows Using a Semantic Specification. In Proc. of CISIS 2010, 496-501, Krakow, Poland, ISBN: 978-0-7695-3967-6
104. Sindrilaru, Alexandru Costan, V. Cristea, Fault Tolerance and Recovery in Grid Workflow Management Systems, In Proceedings of the 4th International Conference on Complex, Intelligent and Software Intensive Systems, 475 - 480, Krakow, Poland, ISBN: 978-0-7695-3967-6.
105. Raluca Diaconescu, C. Gorgorin, V. Gradinescu, V. Cristea, L. Iftode Collaborative Route Planning in Vehicular Ad-hoc Networks, in Proceedings of the CSCS-16, Bucharest 22-25 May 2007, pp 267-274
106. Valentin Cristea, Stefan Trausan-Matu, Valentin Cristea, Alexandru Gartner Towards an evaluation methodology for Collaborative Learning Proceedings of CSCS16, Bucharest, 2007, pp.161-168, Printech, ISBN 978-973-718-743-7
107. Vlad Posea, Stefan Trausan-Matu, Valentin Cristea Online Evaluation of Collaborative Learning Platforms, Proceedings of 1st International Workshop on Collaborative Open Environments for Project-Centered Learning, 2007, Crete, pp. 66 - 75, CEUR-WS.org Vol 309, ISSN 1613 - 0073
108. V. Posea, D. Mihaila, S. Trausan-Matu, V. Cristea, Al. Gartner "Evaluation of Virtual Learning Environments Using Logs and Social Networks", in Proceedings of the TEL-CoPs'06: 1st International Workshop on Building Technology Enhanced Learning solutions for Communities of Practice, Crete, Greece, October 2, 2006, pp 144-150
109. S. Trausan-Matu, D. Mihaila, V. Cristea, Personalizarea secventierii intr-un mediu de invatare bazat pe cunostinte, in C.G. Apostol, D. Gorgan (eds.), Interactiune om-calculator 2006, Informatica Economica, vol. X, Bucuresti, ISSN 1453-1305, pp. 49-54, 2006
110. Corina Stratan, Mihaela Toartă, Al. Costan, V. Cristea GridMOSI: Towards Integrated Optimization Solutions for Grid Environments, Proceedings of 5th RoEduNet International Conference, 1-3 June 2006, Sibiu Romania, ISBN 973-4244-0049-X
111. V. Posea, D. Mihaila, S. Trausan-Matu, V. Cristea, Al. Gartner, Logs-based Evaluation of Virtual Learning Environments, in Proceedings of the Workshop "IST – Multidisciplinary approaches", ISBN-10973-0-04483-X, ISBN-13978-973-0-04483-6, Bucharest, 2006, pp. 53-58.
112. S. Trausan-Matu, Dan Mihaila, Adrian Popescu, V. Cristea, Personalized sequencing an a knowledge-based e-learning environment, in the Proceedings of the 4th Information Systems and Operations Management Workshop, ISBN 973-7643-75-5, Bucharest, Romania, 2006, pp. 434-443
113. Neagu, N. Andrei, V. Sima, N. Tapus, V. Cristea, C. Nae, Rodica Potolea, Dana Petcu, Al. Stanciu, Proiectul "organizatia virtuala GRIDMOSI – componenta a infrastructurii nationale de cercetare, in Revista Romana de Informatica si Automatica, Volumul 16, Nr 4, 2006, pp 113-120
114. V. Cristea, S. Trausan-Matu "Authoring and delivering adaptable learning objects in SINTEC", Proceedings of the 3rd Workshop of Authoring of Adaptive and Adaptable Educational Hypermedia, AIED Conference, Amsterdam, 19 iulie 2005
115. V. Cristea "Patterns For E-learning", Proceedings of the 15th International Conference on Control Systems and Computer Science, 25-27 May 2005
116. V. Cristea, S. Trausan-Matu, O. Udrea "Knowledge-based training in the networked economy", in Proceedings of the 9th International Conference on Concurrent Enterprising, Helsinki, Finland, 16-18 June 2003, pp 539-542
117. V. Cristea, N. Tapus, Sabina Serbu "Towards Grid-enabled applications", Proceedings of the 14th International Conference on Control Systems and Computer Science, CSCS14, Bucharest, July 2-5, 2003, pp 50-56

118. V. Cristea, S. Trausan-Matu, O. Udrea “SINTEC e-Learning collaborative environment”, Proceedings of the 14th International Conference on Control Systems and Computer Science, CSCS14, Bucharest, July 2-5, 2003, pp 63-67
119. S. Trausan-Matu, V. Cristea, O. Udrea “Knowledge-based e-Learning on the semantic Web”, Proceedings of the 14th International Conference on Control Systems and Computer Science, CSCS14, Bucharest, July 2-5, 2003, pp 149-153
120. Monica Ene-Pietrosanu, V. Cristea “Secure payment solutions for Romanian e-markets”, Proceedings of the 14th International Conference on Control Systems and Computer Science, CSCS14, Bucharest, July 2-5, 2003, pp 198-204
121. N. Tapus, V. Cristea, M. Burcea, V. Staicu “ROGRID – Towards a Romanian computational Grid”, Proceedings of the 14th International Conference on Control Systems and Computer Science, CSCS14, Bucharest, July 2-5, 2003, pp 472-477
122. V. Cristea, N. Tapus, S. Trausan-Matu. MidWeb – Towards a Knowledge and Web Based Virtual Environment for Training in High Performance Computing in Proceedings of the First RoEduNet Conference “Networking for Education and Research” 18-19 April 2002, Cluj-Napoca, pp 21-26
123. V. Cristea, Adina Magda Florea. “CoLaborator - A Collaborative Virtual Environment for Research Teams” Proceedings of the ECEC 2001 Valencia, Spain, 18-20 April 2001
124. V. Cristea, Gavril Godza. „Developing Quality MPI Programs” Proceedings of the 13th International Conference on Control Systems and Computer Science, CSCS13, Bucharest, May 31 – June 2, 2001, pp 296-303
125. Monica Ene-Pietrosanu, V. Cristea. “Applications of digital signatures with additional functionality to e-commerce”. Proceedings of the 13th International Conference on Control Systems and Computer Science, CSCS13, Bucharest, May 31 – June 2, 2001, pp 380-387
126. Godza, V. Cristea, R. Mateescu. „Formal Specification of Checkpointing Algorithms” Proceedings of the 13th International Conference on Control Systems and Computer Science, CSCS13, Bucharest, May 31 – June 2, 2001, pp 311-317
127. V. Cristea, A.M. Florea, A.M. Stanescu. “Collaborative Enterprise University Pilot Architectural Model” Proceedings of the ICE 7th International Conference on Concurrent Enterprising, Bremen, Germany, 27-29 June 2001
128. Monica Ene-Pietrosanu, Valentin Cristea. “Designing E-Commerce Security Protocols Using Enhanced Digital Signatures” Proceedings of the IEEE ICT 2001 Conference, Bucharest, Romania, June 4-7, 2001
129. V. Cristea, Adina Florea. “CoLaborator - a Virtual CSCW Environment for Education and Research” Proceedings of The 26th Annual ARA Congress, 25 - 29 July 2001 Montréal, Québec, Canada

Carti si capitole in carti de specialitate in edituri nationale recunoscute

1. 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
2. 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
3. Florin Pop, Costin Grigoras, Alex Costan, Ciprian Dobre, Valentin Cristea. Tehnologii actuale in sistemele grid, Atelier de Lucru MEDIOWEB vol 1, pp: 80-98, ISBN: 973-713-090-1, Ed MEDIOWEB Cluj-Napoca, 2006.
4. V. Cristea Practical Issues in the Development of Secure Distributed Systems, in Informatics Security Handbook, Coord. Ion Ivan, Cristian Toma, Editura ASE, 2006, pp 221-246
5. V. Cristea s.a. Sisteme inteligente de instruire pe Web, Ed. Politehnica Press, Bucuresti 2005, ISBN: 973-8449-85-5, 206p
6. V. Cristea, E. Belea, V. Zabalán. Ghidul utilizatorului sistemului de calcul de înaltă performanță CoLaborator, Editura MatrixRom, București 2002
7. V. Cristea. Algoritmi de prelucrare paralelă, Editura Matrixrom, București 2002
8. I. Roșca, N. Țăpuș, V. Cristea, ș.a. Intranet (Partea a II-a), Editura ASE București, 2000. ISBN 973-9462-68-5 (112 pagini)
9. Roșca, N. Țăpuș, V. Cristea, ș.a. Internet & Intranet. Concepte și aplicații, Editura Economică București, 2000. ISBN 973-590-398-9 (304 pagini)

Carti si capitole in carti de specialitate in edituri internationale recunoscute

1. C Negru, F Pop, M Mocanu, V Cristea. A Unified Approach to Data Modeling and Management in Big Data Era, in book Data Science and Big Data Computing, 95-116, 2016
2. Florin Pop, Catalin Negru, Sorin N. Ciolofan, Mariana Mocanu, Valentin Cristea. Optimizing Intelligent Reduction Techniques for Big Data, chapter in Volume 18 Big Data Optimization: Recent Developments and Challenges of the series Studies in Big Data, pp 49-70, Published: 2016
3. RI Ciobanu, RC Marin, C Dobre, V Cristea. ONSIDE-SELF: A Selfish Node Detection and Incentive Mechanism for Opportunistic Dissemination, in book Internet of Things (IoT) in 5G Mobile Technologies, pages 317-332, 2016
4. Bogdan-Costel Mocanu, Florin Pop, Ciprian Dobre, Valentin Cristea. Self-adaptive Overlay Networks, chapter of book Pervasive Computing: Next Generation Platforms for Intelligent Data Collection, Editors: Morgan Kaufmann/ Elsevier, 2016
5. Florin Pop, Valentin Cristea, The Art of Scheduling for Big Data Science, Chapter in Big Data: Algorithms, Analytics, and Applications, Chapman & Hall/CRC Big Data Series, ISBN 978-1482240559, 2015
6. Radu-Ioan Ciobanu, Valentin Cristea, Ciprian Dobre, Florin Pop, Big Data Platforms for the Internet of Things, "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
7. Valentin CRISTEA, Ciprian DOBRE, Florin Pop, Context-Aware Environments for the Internet of Things, "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, 462p. doi:10.1007/978-3-642-34952-2_2
8. Florin Pop, Ciprian Dobre, Catalin Negru, Valentin Cristea. Re-scheduling Service for Distributed Systems, 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
9. 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.
10. Lavinia, C. Dobre, F. Pop, V. Cristea, A Failure Detection System for Large Scale Distributed Systems, in Development of Distributed Systems from Design to Application and Maintenance, Nik Bessis (Ed.), IGI Global, pp .127-151, ISBN: 978-1-4666-2647-8, Dec2012.
11. Valentin Cristea, Florin Pop, Ciprian Dobre, and Alexandru Costan, Distributed Architectures for Event-Based Systems, 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. 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.
13. Dragos Shirlea, Alina Simion, Florin Pop, Valentin Cristea, Monitoring and Performance Analysis of Workflow Applications 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
14. Bogdan Ghit, Florin Pop, Valentin Cristea, Intrusion Detection in Multi-Agent Systems, Intelligent Networking, Collaborative Systems and Applications, 2010 Springer-Verlag Berlin Heidelberg, pp: 235-256, ISBN 978-3-642-16792-8
15. 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

Granturi / proiecte internationale castigate prin competitie - Director de proiect

1. 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), Perioada de desfasurare: 2010-2012
2. CHANGE – Enabling Innovation in the Internet Architecture through Flexible Flow-Processing Extensions, Proiect FP-7, Grant Agreement No 257422, 2011-2013

3. COOPER – Collaborative Open Environment for Project-Centred Learning, Contract no. 027073, FP6, 2005-2007
4. EGI-InSPRE: Integrated Sustainable Pan-European Infrastructure for Researchers in Europe, FP7 Contract no. RI-261323, Perioada de desfasurare: 1 Mai 2010 - 30 April 2012
5. SEE-GRID-SCI: SEE-GRID eInfrastructure for regional eScience, FP7 Contract no. 211338, Perioada de desfasurare: Mai 2008 - Mai 2010
6. EGEE III: Enabling Grids for E-science, Fp7 Contract no. INFSO-RI-222667, Director Romania: Dr. Gabriel Neagu (ICI Bucuresti), Perioada de desfasurare: 1 Mai 2008 - 30 April 2010.

Granturi / proiecte nationale castigate prin competitie - Director de proiect

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), Valoare: 1.500.000 RON. Perioada de desfășurare: Iulie 2014 - Iunie 2016.
2. 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), perioada de desfasurare: 1 ianuarie 2009 - 31 decembrie 2011
3. 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). Perioade de desfasurare: 1 Octombrie 2008 - 10 Decembrie 2011
4. 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), Coordonator UPB: Prof.dr.ing. Valentin Cristea, Perioada de desfasurare: 07 Octombrie 2008 - 10 octombrie 2011
5. 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, Perioada de desfasurare: 2008-2011
6. Planificarea Descentralizata in Medii Grid Bazata pe Arhitectura Sistemelor WEB (Decentralized Scheduling in Grid Environments Based on WEB Services Architecture), TEMA NR. 25, ANEXA 1a, COD CNCSIS 154, 2007-2010
7. Gestiunea resurselor si planificarea activitatilor in sistemele distribuite bazate pe tehnologii Grid (Resource management and Activity Scheduling in Distributed Systems based on Grid Technologies), Tema Nr. 15, Contractul nr. 27692/14.03.2005, COD CNCSIS 288
8. MON-I: Distributed monitoring of middleware and applications in national Grid infrastructure, Grant INFOSOC, Director: Prof.dr.ing. Valentin Cristea (UPB), Perioada de desfasurare: 2004 - 2006
9. Cresterea utilizabilitatii si eficacitatii calculului de inalta performanta in aplicatii stiintifice si ingineresti. Proiectarea unor algoritmi cu grad înalt de concurenta si cu ascunderea latentelor. Contract Nr. 37124/2000 cu CNCSIS, Cod CNCSIS 1343 si Contract 34.967/2001 cu CNCSIS, Tema 95, Cod CNCSIS 94
10. CoLaborator – Centru Național de Tehnologia Informației Contract CNCSIS și Banca Mondială Nr. 26389/2000-2002, Cod 7
11. Proiectarea si evaluarea algoritmilor distribuiti pentru aplicati ingineresti, economice si comerciale. Elaborarea normelor generale de programare si implementarea algoritmilor in MPI. Contract ANSTI Nr. 5076 / 1999, Act adit. 6082 / 2000
12. Platforme Web pentru comert electronic. Modele conceptuale de comert electronic. Protocoale de securitate pentru sisteme de plata electronice. Contract ANSTI Nr. 501/2000, Tema B5

Granturi / proiecte internationale castigate prin competitie – Membru in echipa

1. Data4Water: Excellence in Smart Data and Services for Water Management, H2020-TWINN-2015, ID: 690900, Director: Prof.dr.ing. Mariana Mocanu (UPB), Perioada de desfasurare: Ianuarie 2016 - Decembrie 2019
2. ERRIC: Empowering Romanian Research on Intelligent Information Technologies, FP7-REGPOT-2010-1, ID: 264207, Director: Prof.dr.ing. Adina Magda Florea (UPB), Perioada de desfasurare: Septembrie 2010 - August 2013

3. ICT COST Action IC1303, "Algorithms, Architectures and Platforms for Enhanced Living Environments" (AAPELE), proiect EU COST. Responsabil de rețeaua națională de cercetare în acțiune și reprezentat în Comitetul de Management al Acțiunii: Ciprian Dobre (UPB). Perioada de desfășurare: Noiembrie 2013 – Noiembrie 2017.
4. ICT COST Action IC1302, "Semantic keyword-based search on structured data sources" (KEYSTONE), proiect EU COST. Responsabil de Rețeaua Națională în Comitetul de Management al Acțiunii: Florin Pop (UPB). Perioada de desfășurare: Noiembrie 2013 – Noiembrie 2017
5. SideSTEP – Metode de Planificare pentru Sisteme Distribuite Dinamice: o Abordare Adaptivă (Scheduling Methods for Dynamic Distributed Systems: a self-* approach), International PNII – Cooperări Bilaterale, ID: PN-II-CT-RO-FR-2012-1-0084, Benef.: UEFISCDI, January 2013 – December 2014
6. AESOP – A European and South African Partnership on Heritage and Past, International Erasmus Mundus, 2013 – 2017
7. P2P- NEXT Next Generation Peer-to-Peer Content Delivery Platform, FP7, 2011
8. LTfLL – Language Technologies for Lifelong Learning, proiect 38EU/31.07.2009
9. ASSG – Grup Virtual de Simulare la Scala Atomică în Știința materialelor, Proiect ANCS, 2007-2009
10. EU-NCIT: NCIT leading to EU IST Excellency, FP6-INCO programme, ID: 7046, FP6 Contract 17101, Director: Prof.dr.ing. Nicolae Țăpuș, Perioada de desfășurare: 1 mai 2005 - 30 Aprilie 2008
11. CODESTAR, Compact modeling of on-chip passive structures at high frequencies, IST-2001-34058
12. REASON, REsearch and Training Action for System On Chip Design, IST-2000-30193

Granturi / proiecte naționale castigate prin competiție – Membru în echipa

1. 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), Valoare: 785.000 RON. Perioada de desfășurare: Iulie 2014 - Iunie 2016.
2. CyberWater – Prototype Cyberinfrastructure-based System for Decision-Making Support in Water Resources Management – CyberWater, National PNII – Parteneriate PCCA 1, ID: PNII – Parteneriate PCCA 1 nr. 47/2012, Benef.: UEFISCDI, July 2012 – July 2015
3. Doctoratul în științe de excelență – Evaluarea calitatii cercetării în universități și creșterea vizibilității prin publicare științifică, Proiect strategic UEFISCDI 4141
4. 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.
5. 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
6. Platformă de eLearning și curricula 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). Perioada de desfășurare: Octombrie 2010 - Octombrie 2012
7. CATIIS: Program doctoral inter-regional și trans-național de excelență în domeniile "Calculatoare și tehnologia informației" și "Ingineria sistemelor" pentru o economie bazată pe cunoaștere. POS DRU – Axa 1.5 „Programe doctorale și postdoctorale în sprijinul cercetării”, 2009-2011
8. CRIS – Program strategic de cercetare dezvoltare pentru creștere și inovare în domeniul serviciilor, 207/CP II/2010
9. PALIROM – Concepția, proiectarea și implementarea unui pachet de aplicații lingvistice pentru analiza și prelucrarea textelor scrise în limba română, 2009
10. SINDEGRID – Sistem național de dezvoltare și exploatare a gridului de calcul LCG pentru fizica particulelor elementare, 2007-2008
11. Sistem de integrare a aplicațiilor paralele în mediul Grid, 2008
12. K-Teams – Collaboration in virtual teams, CNCSIS, 2007
13. SISEB – Sistem de securizare al operațiunilor bancare electronice (e-banking) prin semnatura biometrică. Proiect 2660, Contract CNMP 11059 / 2007

14. 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), Coordonator UPB: Prof.dr.ing. Valentin Cristea, perioada de desfasurare: 21 Septembrie 2007 - 17 Septembrie 2010.
15. 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). Perioade de desfasurare: Decembrie 2005 - Decembrie 2008.
16. 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). Perioade de desfasurare: Decembrie 2005 - Decembrie 2008
17. Monitorizarea distribuita a resurselor din infrastructura Grid nationala (MON-R), Contract de cercetare nr. 2167 / 27.10.2004, in cadrul programului RELANSIN
18. Campuri de forta in modele structurale moleculare si supramoleculare. Spre o chimie cuantica a nanostructurilor prin asamblarea datelor ab initio ale blocurilor constitutive, Contract CNCSIS (coordonator Institutul de Chimie Fizica).
19. Monitoriarea distribuita a middleware-ului si a aplicatiilor din infrastructura Grid nationala (MON-I), Contract de cercetare nr. 88B/ 16.08.2004, in cadrul programului InfoSoc
20. PP6 – Realizarea unei unitati pilot si a sistemului de calitate asociat pentru implementarea unui sistem de conducere a programelor nationale de cercetare-dezvoltare, ICI si SC IPA SA, 2003
21. Strategia de cercetare si dezvoltare tehnologica in domeniul tehnologiilor informationale si de comunicatii in perspectiva integrarii in spatiul de cercetare european, ICTCMSA Bucuresti, ISIM Timisoara, UPB – CNC, 2003
22. Dezvoltarea unei retele nationale de informare si diseminare a informatiilor in domeniul securitatii si sanatatii in munca, 19121/29.10.2002,7/14.10.02, Institutul National de Cercetare pentru Protectia Muncii
23. Elaborarea strategiei de dezvoltare GRID in Romania, ORIZONT, MEC, contract nr. 502/2000, se extinde pana la 31.12.2002
24. Elaborarea de specificatii tehnice pt. Accesul la reseaua metropolitana, Elaborarea unui studiu privind integrarea retelei metropolitane in reseaua nationala si internationala, ORIZONT, MEC, contract nr. 502/2000, se extinde pana la 31.12.2002
25. Sistem complex pentru preluarea informatiilor legate de persoanele, bunurile si evenimentele care privesc regimul juridic al frontierei de stat a Romaniei. Tehnologii, 21122/28.11.02, ICI si UTI Systems SA
26. Structura electronica a starii de tranzitie ca modelare adecvata in probleme de magnetism molecular, valenta mixta si sisteme cu legaturi slabe “- cu Institutul de Chimie Fizica “I.G.MURGULESCU” al Academiei Romane, grant CNCSIS
27. “Studiul cuanto-mecanic privind structura electronica si mecanismul de actiune ca antioxidant al hormonului steroid DHEA(S)”- contract de Grant CNCSIS nr.28/2002 cu Institutul de Chimie Fizica “I.G.MURGULESCU” al Academiei Romane
28. Servicii educationale in domeniul INTRANET/INTERNET, Contract RELANSIN
29. Dezvoltarea unui nucleu bazat pe tehnologii si aplicatii grid pentru calcul de inalta performanta, 53/01.08.02(INFOSOC)13-02.02(UPB), ICI
30. SINTEC – Sistem telematic inteligent si interactiv pentru educatie continua, consultanta si instruire, 57/02.08.02(INFOSOC)13-02-03(UPB), ICI
31. Evaluarea unor algoritmi paraleli pentru sisteme cu memorie distribuita. Contract Nr. 883/1996 cu MCT, act aditional /2000, in cadrul programului PARADIS – Mediu integrat pentru sisteme paralele și distribuite
32. Soluții eficiente de proiectare intranet și de lucru cooperativ în întreprinderi. Contract Nr. 131 / 1999, Act aditional -2000 între Infotec și ANSTI, Tema B2