

Curriculum vitae

Marc Eduard FRÎNCU

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Date personale

Nume:	Frîncu
Prenume:	Marc-Eduard
Data și locul nașterii:	26 Aprilie 1983 Timișoara România
Statut civil:	Căsătorit
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Educație

Atestat de abilitare	Facultatea de Mat. și Inf.	Universitatea de Vest Timișoara	2017
Doctorat	Facultatea de Mat. și Inf.	Universitatea de Vest Timișoara	2008 - 2011
Masterat	Facultatea de Mat. și Inf.	Universitatea de Vest Timișoara	2006 - 2008
Stagiu cercetare	LORIA	INRIA Nancy Franța	Oct 2007 - Ian 2008
Licența	Facultatea de Mat. și Inf.	Universitatea de Vest Timișoara	2002 - 2006

Experiență profesională

Prodecan	Universitatea de Vest Timișoara Romania	Oct 2017 - prezent
Conferentiar universitar	Universitatea de Vest Timișoara Romania	Oct 2016 - prezent
Cercetător	Institutul e-Austria Timișoara România	Sep 2015 - prezent
Lector universitar	Universitatea de Vest Timișoara Romania	Sep 2012 - Sep 2016
Cercetător postdoctoral	Universitatea din California de Sud SUA	Oct 2013 - Aug 2015
Cercetător postdoctoral	Universitatea din Strasbourg Franța	Oct 2012 - Sep 2013
Asistent	Universitatea de Vest Timișoara România	Feb 2012 - Sep 2012
Cercetător stagiar	Institutul e-Austria Timișoara România	Sep 2006 - Iul 2013
Preparator	Universitatea de Vest Timișoara România	Mar 2007 - Ian 2012
Cercetător în vizită	INRIA Lille Franța	Iul 2010
Programator	Extenseo SRL	Feb 2006 - Aug 2006
Tehnician	FiberNet SRL	Sep 2005 - Ian 2006

Proiecte de cercetare internaționale și naționale

Director de proiect

- Grant RO PN3, BISMART: Business Intelligence KPI Application Suite for SmartMetering MDM , 2016-2018, 81.500 EUR
- Grant ESA Matlib4Space: Pre-Qualification of a Mathematical Library for FSW, 2016-2018, 300.000 EUR
- Grant USC Ming Hsieh Institute pentru seminarii științifice: "Distinguished Speaker Series on Innovation in Informatics to address Smart Energy Challenges", 2014-2016, 12.000 USD

Membru

- Proiecte în desfășurare
 - CloudLightning+, PN-III-P3-3.6-H2020-2016-0005 CNCS, 2016-2018
 - CloudLightning, grant EU H2020, 2015-2018
- Proiecte anterioare
 - GoFFFish, DARPA XDATA, 2012-2016 (manager tehnic)
 - LADWP SmartGrid, DoE DE-OE0000192, 2010-2015 (manager tehnic)
 - SONGS, ANR-11-INFRA-13, ANR, 2012-2015
 - AMICAS, PN-II-ID-PCE-2011-3-0260 CNCS, 2012-2014
 - FP7-REGPOT HOST, grant no. 284595, 2012-2014
 - FP7-ICT mOSAIC grant no. 256910, 2010-2013
 - FP6-2005-Infrastructure-5 SCIEnce, RII3-CT-2005-026133, 2006-2010
 - GiSHEO: On-demand Grid services for training and high education in Earth Observation, ESAPECS, 2008-2010

Premii și distincții

- Premiul “Rada Mihalcea” pentru excelență în cercetare (2017)
- Membru senior IEEE (2016)
- Diplomă de cercetător eminent, Asociația Orizonturi Universitare Timișoara (2015)
- Premiu pentru cea mai bună lucrare la conferința internațională ICISSP (2015)
- USC Postdoctoral Scholar Travel & Training Award (2014)
- Diploma de excelență a Universității de Vest din Timișoara: Cel mai bun debut in activitatea de cercetare și didactică (2011)

Activități pentru comunitate

- **Prelegeri (invitat):** Școala de vară COST: cHiPSet, 22 Septembrie 2016
- **Recenzor proiecte:** French National Research Agency (2015), Poland National Science Center (2016, 2017)
- **Recenzor științific:** IEEE Communications Magazine (2017), Journal of Parallel and Distributed Systems (2014–prezent), Springer Computing (2013), IEEE Transactions on Cloud Computing (2013–prezent), IEEE Transactions on Smart Grids (2014–prezent), Springer Soft Computing (2013–prezent), American Mathematical Society (2012–prezent), Journal of Grid and Utility Computing (2013), Scalable Computing: Practice and Experience (2013), The Arabian Journal for Science and Engineering (2013), Computer Communication & Collaboration (2013)
- **Co-organizator conferințe:** SYNASC (2013-2017) (distributed computing track), SCRAMBL (2014-2015), ARMS-CC (2017), ICA3PP’17 (Big Data and Applications track)
- **Membru în Comitete de Program:** SYNASC’11, SYNASC’12, MICAS’12 workshop, CBPM’13, ICDCIT’16, CCGrid’15, HPiC’15, ARMS’15 workshop, GeCon’15, ICA3PP’16, GeCon’16, ICA3PP’17, ISPDC’17, GeCon’17, CSCS21’17, ICDCIT’17,
- **Editor jurnale:** Special Issue on Selected Papers from SYNASC’12 Workshops, Journal of Scalable Computing: Practice and Experience (2015); Special Issue on Scalable Computing Systems for Big Data Applications, Journal of Parallel and Distributed Computing (2016)

- **Editor tehnic:** Scalable Computing: Practice and Experience (2011-2014)
- **Membriu:** ALPO (Association of Lunar and Planetary Observers) USA (din 2007), IEEE (din 2013), SEAC (din 2016), Societatea Română pentru Astronomie Culturală (președinte din 2017)

Lucrări publicate – Marc Eduard FRÎNCU

1.1 Teză de doctorat

M. E. Frincu, Adaptive Scheduling for Distributed Systems, Universitatea de Vest Timisoara, URL: <http://web.info.uvt.ro/mfrincu/frincu-thesis-en.pdf>, 2011.

1.2 Articole în reviste internaționale

IEEE, Elsevier, Springer, Wiley

1. A. Ezugwu, M. Frincu, A. Adewumi, S. Buhari, S. Junaidu, *Neural network-based multi-agent approach for scheduling in distributed systems*, Concurrency and Computation: Practice and Experience, Wiley Press, vol. 29(1), online DOI: 10.1002/cpe.3887, 2017 (IF: 0.942)
2. A. Ezugwu, A. Adewumi, M. Frincu, *Simulated annealing based symbiotic organisms search optimization algorithm for traveling salesman problem*, Expert Systems with Applications, Elsevier, vol. 77, pp. 189-210, 2017 (IF: 2.981)
3. R. Pal, C. Chelmiss, M. Frincu, V. Prasanna, *Towards Dynamic Demand Response On Efficient Consumer Grouping Algorithmics*, IEEE Transactions on Sustainable Computing, IEEE Press, vol. 1(1), pp. 20-34, 2016
4. R. Pal, C. Chelmiss, M. Frincu, V. Prasanna, *MATCH for the Prosumer Smart Grid: The Algorithmics of Real-Time Power Balance*, IEEE Transactions on Parallel and Distributed Systems, IEEE Press, vol. 27(12), pp. 3532-3546, 2016 (IF: 2.17)
5. A. Ezugwu, S. Junaidu, M. Frincu, S. Buhari, A. Obiniyi, *Scheduling multi-component applications with mobile agents in heterogeneous distributed systems*, Concurrency and Computation: Practice and Experience, Wiley Press, vol. 28(5), pp. 1462-1479, 2016 (IF: 0.997)
6. A. Kumbhare, M. Frincu, Y. Simmhan, V. Prasanna, *Reactive Resource Provisioning Heuristics for Dynamic Dataflows on Cloud Infrastructure*, IEEE Transactions on Cloud Computing, IEEE Press, vol. 3(2), pp. 105-118, 2015
7. M. E. Frincu, S. Genaud, J. Gossa, *On the Efficiency of Several VM Provisioning Strategies for Workflows with Multi-threaded Tasks on Clouds*, Computing, Springer, vol. 96(11), pp. 1059-1086, 2014 (IF: 0.807)
8. M. E. Frincu, *Scheduling Highly Available Applications on Cloud Environments*, Future Generation Computing Systems, Elsevier, vol. 32, pp. 138-153, 2014 (IF 2.365)
9. D. Petcu, S. Panica, M. E. Frincu, M. Neagul, G. Macariu, D. Gorgan, T. Stefanut, *Experiences in building a Grid-based platform to serve Earth observation training activities*, Computer Standards & Interfaces, Elsevier, vol 34, 493-508, 2011 (IF 0.825)

Alte jurnale

10. E. Absalom, N. Okoroafor, S. Buhari, M. Frincu, S. Junaidu, *Grid Resource Allocation with Genetic Algorithm Using Population Based on Multisets*, De Gruyter Press, Journal of Intelligent Systems, vol. 26(1), pp. 169-184, 2017
11. E. Absalom, M. Frincu, S. Junaidu, *Architectural Pattern for Scheduling Multi-Component Applications in Distributed Systems*, International Journal of Grid and High Performance Computing, IGI Press, vol. 8(1), pp. 1-22, 2016
12. E. Absalom, M. Frincu, S. Junaidu, *Characterization of grid computing resources using measurement-based evaluation*, Multiagent and Grid Systems, IOS Press, vol. 12(1), pp. 13-34, 2016
13. M. Frincu, S. Genaud, J. Gossa, *Client-Side Resource Management on the Cloud: Challenges, Solutions and Future Directions*, Journal of Cloud Computing, InderScience, pp. 234-257, 2015

14. E. Absalom, M. Frîncu, A. Obiniyi, S. Buhari, S. Junaidu, *Multiagent-based approach for scheduling meta-applications in heterogeneous grid environments*, Multiagent and Grid Systems, IOS Press, vol. 11(2), pp. 59–79, 2015
15. F. Zamfirache, M. Frîncu, *Automatic selection of scheduling algorithms based on classification models*, Studia Universitatis Babeş-Bolyai Series Informatica, vol. LVI(2), pp. 95–100, 2011
16. A. Cârstea, M. Frîncu, G. Macariu, and D. Petcu, *Validation of SymGrid-services framework through event based simulation*, International Journal of Grid and Utility Computing, InderScience, vol. 2(1), pp. 33–44, 2011
17. M. E. Frîncu, D. Petcu, *OSyRIS: a Nature Inspired Workflow Engine for Service Oriented Environments*, Scalable Computing: Practice and Experience, vol. 11(1), pp. 81–97, 2010
18. D. Petcu, S. Panica, M. Neagul, M. Frîncu, D. Zaharie, R. Ciorba, A. Dinis, *Earth Observation Data Processing in Distributed Systems*, Informatica, Slovenian Society Informatika, vol. 34(4), pp. 463–47, ISSN 0350-5596, 2010.
19. M. E. Frîncu, G. Macariu, A. Cârstea, *Dynamic and Adaptive Workflow Execution Platform for Symbolic Computations*, Pollack Periodica, Akadémiai Kiadó, vol. 4(1), pp. 145–156, 2009
20. D. Petcu, A. Cârstea, G. Macariu, M. Frîncu, *Service-oriented Symbolic Computing with SymGrid*, Scalable Computing: Practice and Experience, vol. 9(2), pp. 111–124, 2008

1.3 Articole în conferințe internaționale

LNCS (ISI proceedings)

21. A. Spataru, T. Selea, M. Frîncu, *Online Resource Coalition Reorganization for Efficient Scheduling on the Intercloud*, Procs. 16th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP), Dec 14-16, Granada, Spania, 2016, pp. 143-161.
22. F. Micota, M. Frîncu, D. Zaharie, *Population-based Metaheuristics for Tasks Scheduling in Heterogeneous Distributed Systems*, Procs. 7th International Conference on Numerical Methods and Applications (NMA), Aug 20–24, Borovets, Bulgaria, LNCS 6046, Springer, 2010, pp. 321–328.
23. M. E. Frîncu, *Dynamic Scheduling Algorithm for Heterogeneous Environments with Regular Task Input from Multiple Requests*, Procs. 4th International Conference on Grid and Pervasive Computing (GPC), LNCS 5529, Springer, 2009, pp. 199–210.
24. A. Cârstea, M. Frîncu, A. Konovalov, G. Macariu, D. Petcu, *On Service-oriented Symbolic Computing*, Procs. 7th International Conference on Parallel Processing and Applied Mathematics (PPAM), LNCS 4967, Springer, 2008, pp. 843–851.

IEEE (ISI proceedings)

25. B. Butunoi, M. Frîncu, *Shapelet based Classification of Customer Consumption Patterns*, Procs. IEEE PES Innovative Smart Grid Technologies Europe (iSGT-Europe), IEEE Press, 2017, pp. 1-6.
26. A. Spataru, M. Frîncu, *Using Cluster Information to Predict Individual Customer Consumption*, Procs. IEEE PES Innovative Smart Grid Technologies Europe (iSGT-Europe), IEEE Press, 2017, pp. 1-6.
27. A. Popa, M. Frîncu, *A Distributed Algorithm for the Efficient Computation of the Unified Model of Social Influence on Massive Datasets*, Procs. IEEE HPEC, 2017, pp. 1-7.
28. M. Frîncu, *Architecting a hybrid cross layer dew-fog-cloud stack for future data-driven cyber-physical systems*, Procs. MIPRO, 2017, pp. 399-403.
29. A. Vulpe, M. Frîncu, *Scheduling Data Stream Jobs on Distributed Systems with Background Load*, Procs. 3rd International Workshop on Scalable Computing for Real-Time Big Data Applications in conjunction with IEEE/ACM CCGrid, 2017, pp. 838-848.

30. L. Oana, M. Frincu, *Benchmarking the WRF Model on Bluegene/P, Cluster, and Cloud Platforms and Accelerating Model Setup through Parallel Genetic Algorithms*, Procs. 16th International Symposium on Parallel and Distributed Computing (ISPDC), 2017, pp. 78-84.
31. T. Ivascu, M. Frincu, V. Negru, *Considerations towards security and privacy in Internet of Things based eHealth applications*, Procs. 14th International Symposium on Intelligent Systems and Informatics (SISY), 2016, pp. 275-280.
32. M. Frincu, R. Draghici, *Towards a Scalable Cloud Enabled Smart Home Automation Architecture for Demand Response*, Procs. IEEE PES Innovative Smart Grid Technologies Europe (iSGT-Europe), IEEE Press, 2016, pp. 1-6.
33. T. Selea, A. Spataru, M. Frincu, *Reusing Resource Coalitions for Efcient Scheduling on the Intercloud*, Procs. 16th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), IEEE Press, 2016, pp. 621-626. (short paper)
34. A. Vulpe, M. Frincu, *Exploring Scalability in Pattern Finding in Galactic Structure using MapReduce* Procs. 16th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), IEEE Press, 2016, pp. 582-587. (SCALE challenge finalist)
35. S. Aman, Marc Frincu, C. Chelmis, U. Noor, Y. Simmhan, V. Prasanna, *Prediction models for dynamic demand response: Requirements, challenges, and insights*, Procs. SmartGridComm, 2015, pp. 338-343.
36. A. Kumbhare, M. Frincu, Y. Simmhan, V. Prasanna, *Fault-Tolerant and Elastic Streaming MapReduce with Decentralized Coordination*, Procs. 35th IEEE International Conference on Distributed Computing Systems (ICDCS), IEEE Press, 2015, pp. 328-338. (13% acceptance rate)
37. C. Wickramaarachchi, A. Kumbhare, M. Frincu, C. Chelmis, V. Prasanna, *Real-time Analytics for Fast Evolving Social Graphs*, Procs. 15th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), IEEE Press, 2015, pp. 829-834. (SCALE challenge finalist)
38. M. Frincu, *Distributed Scheduling Algorithm for Highly Available Component based Applications*, Procs. Workshop on Dependable Parallel, Distributed and Network-Centric Systems Job Scheduling Strategies for Parallel Processing (DPDNS) – IPDPS Workshops, IEEE Press, 2015, pp. 1033-1041.
39. Y. Simmhan, N. Choudhury, C. Wickramaarachchi, A. Kumbhare, M. Frincu, C. Ragavendra, V. Prasanna, *Distributed Programming over Time-Series Graphs*, Procs. IEEE International Parallel and Distributed Processing Symposium (IPDPS), 2015, pp. 809-818.
40. F. Knirsch, D. Engel, M. Frincu, V. Prasanna, *Model-based Assessment for Balancing Privacy Requirements and Operational Capabilities in the Smart Grid*, Procs. IEEE Conference on Innovative Smart Grid Technologies (iSGT-US), IEEE Press, 2015, pp. 1-5.
41. M. Frincu, C. Chelmis, M. Noor, V. Prasanna, *Accurate and Efficient Selection of the Best Consumption Prediction Method in Smart Grids*, IEEE International Conference on BigData (BigData), IEEE Press, 2014, pp. 721-729. (18.5% acceptance rate)
42. V. Zois, M. Frincu, V. Prasanna, *Integrated Platform for Automated Sustainable Demand Response in Smart Grids*, Procs. IEEE 1st International Workshop on Intelligent Energy Systems (IWIES), IEEE Press, 2014, pp. 64-69.
43. M. E. Frincu, Z. Gima, *A Bottom-up Approach to Sustained Curtailment and Comfort for Controlled Demand Response*, Procs. 2nd IEEE Conference on Technologies for Sustainability (SusTech), IEEE Press, 2014, pp. 61-68.
44. A. Kumbhare, M. E. Frincu, C. S. Raghavendra, V. K. Prasanna, *Efficient Extraction of High Centrality Vertices in Distributed Graphs*, Procs. 18th IEEE High Performance Extreme Computing Conference (HPEC), IEEE Press, 2014, pp. 1-7. (best paper finalist)

45. C Wickramaarachchi, M. E. Frîncu, P. Small, V. K. Prasanna, *Fast Parallel Algorithm For Unfolding Of Communities In Large Graphs*, Procs. 18th IEEE High Performance Extreme Computing Conference (HPEC), IEEE Press, 2014, pp. 1–6.
46. V. Zois, M. E. Frîncu, C. Chelmiss, R. Saeed, V. Prasanna, *Efficient Customer Selection for Sustainable Demand Response in Smart Grids*, Procs. International Green Computing Conference (IGCC), IEEE Press, 2014, pp. 1–6.
47. E. Michon, J. Gossa, S. Genaud, M. E. Frîncu, A. Burel, *Porting Grid Applications to the Cloud with Schlouder*, Procs. 5th International Conference on Cloud Computing Technology and Science (CloudCom), IEEE Computer Press, 2013, pp. 505–512.
48. M. E. Frîncu, S. Genaud, J. Gossa, *Comparing Provisioning and Scheduling Strategies for Workflows on Clouds*, Procs. 2nd CloudFlow Workshop – IPDPS Workshops, IEEE Computer Press, 2013, pp. 2101–2110.
49. M. E. Frîncu, F.A. Spataru, *Minimizing Resource Rent Loss while Maximizing User Availability in Cloud Applications through Online Switching of the Scaling Method*, Procs. 1st MICAS Workshop – SYNASC Workshops, IEEE Computer Press, 2012, pp. 449–456.
50. D. Petcu, M. E. Frîncu, S. Panica, M. Neagul, *Towards Programmatic Management of Services from Multiple Clouds*, Procs. 4th INCoS, IEEE Computer Press, 2012, pp. 487–488.
51. M. E. Frîncu, C. Craciun, *Multi-objective Meta-heuristics for Scheduling Applications with High Availability Requirements and Cost Constraints in Multi-Cloud Environments*, Procs. 4th IEEE International Conference on Utility and Cloud Computing (UCC), IEEE Computer Press, 2011, pp. 267–274. (28% acceptance rate)
52. D. Petcu, M. Frîncu, C. Craciun, S. Panica, M. Neagul, G. Macariu, *Towards Open-Source Cloudware*, Procs. 4th IEEE International Conference on Utility and Cloud Computing (UCC), IEEE Computer Press, 2011, pp. 330–331. (28% acceptance rate)
53. M. E. Frîncu, *D-OSyRIS: A Self-Healing Distributed Workflow Engine*, Procs. 10th International Symposium on Parallel and Distributed Computing (ISPDC), IEEE Computer Press, 2011, pp. 215–222.
54. M. E. Frîncu, N. Villegas, D. Petcu, H. Müller, R. Rouvoy, *Self-Healing Distributed Scheduling Platform*, Procs. 11th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid), IEEE Computer Press, 2011, pp. 225–234. (29.1% acceptance rate)
55. M. E. Frîncu, *A Method for Distributing Scheduling Heuristics Inside Service Oriented Environments Using a Nature-Inspired Approach*, Procs. 9th International Symposium on Parallel and Distributed Computing (ISPDC), IEEE Computer Press, 2010, pp. 211–218.
56. A. Cârstea, G. Macariu, M. E. Frîncu, D. Petcu *Description and Execution of Patterns for Symbolic Computations*, Procs. 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Press, 2009, pp. 197–205.
57. M. E. Frîncu, *Distributed Scheduling Policy in Service Oriented Environments*, Procs. 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Press, 2009, pp. 205–213.
58. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Workflow Management for Symbolic Grid Services*, Procs. 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Press, 2008, pp. 373–380.
59. G. Macariu, A. Cârstea, M. Frîncu, D. Petcu, *Towards a Grid Oriented Architecture for Symbolic Computing*, Procs. 7th International Symposium on Parallel and Distributed Computing (ISPDC), IEEE Computer Press, 2008, pp. 259–266.

60. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Composing Web-based Mathematical Services*, Procs. 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Press, 2007, pp. 327–334.
61. M. Frîncu, D. Petcu, *Remote Control for Graphic Applications*, Procs. 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Press, 2007, pp. 304–309.
62. G. Macariu, M. Frîncu, A. Cârstea, D. Petcu, A. Eckstein, *Redesigning Parallel Symbolic Computations Packages*, Procs. 16th International Conference on Parallel Architecture and Compilation Techniques (PACT), IEEE Computer Press, 2007, pp. 417.
63. A. Cârstea, M. Frîncu, G. Macariu, D. Petcu, K. Hammond, *Generic Access to Web an Grid-based Symbolic Computing Services*, Procs. 6th International Symposium on Parallel and Distributed Computing (ISPDC) , IEEE Computer Press, 2007, pp. 143–150.

ACM

64. R. Pal, C. Chelmiss, C. Tadepalli, M. Frîncu, S. Aman, V. Prasanna, *Online Time Series Clustering for Demand Response: A Theory to Break the 'Curse of Dimensionality'*, Procs. e-Energy, ACM, 2015, pp 95–100. (25% acceptance rate, challenge paper track)
65. C. Chelmiss, R. Saeed, M. Frîncu, V. Prasanna, *Curtailment Estimation Methods for Demand Response: Lessons Learned by Comparing Apples to Oranges*, Procs. e-Energy, 2015, pp. 217–218.
66. M. Frîncu, C. Chelmiss, S. Aman, V. Zois, R. Saeed, V. Prasanna, C. Fern, A. Akbari, *Enabling Automated Dynamic Demand Response: From Theory to Practice*, Procs. e-Energy, 2015, pp. 229–230.

Alte conferințe internaționale

67. T. Selea, A. Vulpe, O. Brandibur, M. Erascu, E. Kaslik, D. Zaharie, M. Frîncu, *Benchmarking Numerical Libraries for Flight Software Prequalification*, Procs. International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), 2017 (in print).
68. E. Absalom, M. Frîncu, S. Junaidu, *A Multiagent-Based Approach to Scheduling of Multi-component Applications in Distributed Systems*, Procs. CSOC, 2015, pp. 1–12.
69. F. Knirsch, D. Engel, C. Neureiter, M. Frîncu, V. Prasanna, *Model-driven Privacy Assessment in the Smart Grid*, Procs. 2nd International Conference on Information Systems Security and Privacy (ICISSP), SCITEPRESS, 2015, pp. 178–181 .(best paper award)
70. C. Chelmiss, S. Aman, M. R. Saeed, M. Frîncu, V. Prasanna, *Estimating Reduced Consumption for Dynamic Demand Response*, Workshop on Computational Sustainability – AAAI Workshops, AAAI Digital Library, 2015, pp. 17–20.
71. F. Zamfirache, M. Frîncu, Automatic Selection of Scheduling Algorithms based on (Un)Supervised Classification Models, Procs. 3rd Conference on Knowledge Engineering: Principles and Techniques (KEPT) –selected papers, Presa Universitara Clujeana, ISSN 2067-1180, 2011, pp. 185–194.
72. D. Petcu, S. Panica, M. Neagul, M. Frîncu, D. Zaharie, D. Gorgan, T. Stefanut, V. Bacu, *GiSHEO: On-line Platform for Training in Earth Observation*, Procs. 5th International Conf. on Virtual Learning (ICVL), Bucharest University Press, ISSN 1844-8933, 2010, pp. 290–297.
73. D. Petcu, D. Zaharie, S. Panica, M. Frîncu, M. Neagul, D. Gorgan, T. Stefanut, *Grid-based Platform for Training in Earth Observation*, Geophysical Research Abstracts, vol. 12, EGU2010-6713-1, 2010.
74. D. Petcu, D. Zaharie, D. Gorgan, S. Panica, M. Neagul, M. Frîncu, V. Bacu, T. Stefanut, *On demand Grid Services for Training in Earth Observation*, 5th EGEE User Forum / Contributions book, 2010, pp. 68–69.

75. M. Frîncu, S. Panica, M. Neagul, D. Petcu, *GiSHEO: On Demand Grid Service-based Platform for Earth Observation Data Processing*, Procs. 1st Conference on High Performance Grid Middleware (HiperGRID), Politehnica Press, 2009, pp. 415–422.
76. M. E. Frîncu, D. Petcu, *On Designing an Asynchronous and Dynamic Platform for Solving Single Task Requests of Remote Applications*, Procs. 3rd International Multi-Conference on Computing in the Global Information Technology (ICCGI), IARIA, 2008, pp. 12–18.
77. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Secure Orchestration of Symbolic Grid Services*, Procs. 2nd Conference on High Performance Grid Middleware (HiperGRID), Politehnica Press, ISSN 2065-0701, 2008, pp. 25–32.

Conferințe naționale cu comitet internațional

78. D. Petcu, D. Zaharie, H. Popa, M. Frîncu, A. Eckstein, *Grid Services Based on Heuristic Methods for Multi-Objective Optimization Problems*, Procs. 16th International Conference on Control Systems and Computer Science (CSCS), Printech, vol. 2, ISBN 978-973-718-743-7, 2007, pp. 136–141.

1.4 Capitole cărți

79. M. Frîncu, B. Irimie, T. Selea, A. Spataru, A. Vulpe, *Evaluating Distributed Systems and Applications through Accurate Models and Simulations*, Studies in Big Data, Springer, pp. 1–18, 2018.
80. M. E. Frîncu, D. Petcu, *Resource Management for HPC on the Cloud*, in E. Jeannot, J. Zilinskas (Eds.): High-Performance Computing on Complex Environments, John Wiley & Sons, ISBN: 978-1-118-71205-4, pp. 303–323, 2014.
81. M. E. Frîncu, *Scheduling Service Oriented Workflows Inside Clouds Using an Adaptive Agent Based Approach*, in B. Furht, A. J. Escalante (Eds.): Handbook of Cloud Computing, Springer, ISBN 978-1-4419-6523-3, pp. 159–182, 2010.
82. M. E. Frîncu, C. Crăciun, *Dynamic and Adaptive Rule-Based Workflow Engine for Scientific Problems in Distributed Environments*, in S. Ahson, M. Ilyas (Eds.): Cloud Computing and Software Services: Theory and Techniques, Taylor & Francis, ISBN 978-1-43980-315-8, pp. 227–252, 2010.
83. D. Petcu, G. Macariu, A. Cârstea, M. Frîncu, *Service-Oriented Symbolic Computations*, in N. Antonopoulos, G. Exarchakos, M. Li, A. Liotta (Eds.): Handbook of Research on P2p and Grid Systems for Service-oriented Computing: Models, Methodologies and Applications, vol. 2, Information Science Publishing, ISBN 978-1-61520-686-5, pp. 1053–1075, 2010.
84. D. Petcu, D. Zaharie, M. Neagul, S. Panica, M. Frîncu, D. Gorgan, T. Ștefănuț, and V. Bacu, *Remote Sensed Image Processing on Grids for Training in Earth Observation*, in Yung-Sheng Chen (Ed.): Image Processing, InTeh, ISBN 978-953-307-026-1, pp. 115–140, 2009.

1.5 Alte lucrări sau contribuții

Rapoarte tehnice

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