

Curriculum vitae

Marc Eduard Frîncu

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1 Personal data

Surname	Frîncu
Forename	Marc-Eduard
Date and place of birth	April 26th 1983 Timisoara Romania
Civil status	Not married
Nationality	Romanian
Address	Str. Iancu Vacarescu, No.26A, Apt.7, 300182 Timisoara Romania
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2 Studies

Bachelor Degree	Faculty of Math. and CS	West University of Timisoara	2002 - 2006
Internship	LORIA	INRIA Nancy France	Oct 2007 - Jan 2008
Masters Degree	Faculty of Math. and CS	West University of Timisoara	2006 - 2008
Phd student	Faculty of Math. and CS	West University of Timisoara	2008 - present

3 Professional experience

Teaching Instructor	West University of Timisoara Romania	Mar 2007 - present
Junior Researcher	Institute e-Austria Timisoara Romania	Sep 2006 - present
Programmer	Extenseo SRL	Feb 2006 - Aug 2006
Technical Support Officer	FiberNet SRL	Sep 2005 - Jan 2006

4 Languages spoken

- **Romanian** - native language
- **English** - writing (fluent), reading (fluent), understanding (fluent), speaking (fluent)
- **French** - writing (beginner), reading(average), understanding (average), speaking (average)
- **German** - writing (average), reading(average), understanding (average), speaking (average)

5 Research interest

- Parallel, Distributed and Grid Computing
- Computer Graphics
- Computational Astronomy

6 Programming experience

- **Programming languages:** Java, C, C#, Visual Basic
- **Linux Scripting:** Bash, Perl
- **Databases:** MySQL, PostgreSQL
- **Web Programming:** PHP, DHTML, CSS, HTML, JavaScript, DOM, XML, AJAX, XSLT
- **Graphics:** OpenGL, DirectX
- **Mathematical Software:** Maple, GAP
- **Other:** Globus, MPI, RMI

7 Teaching experience

- **Laboratories:** Web Technologies (3rd year undergraduate), Computer Graphics (3rd year undergraduate), Operating Systems (2nd year undergraduate)

8 International Research Grants

8.1 Member

- FP6-2005-Infrastructure-5 SCIENCE 2006-2010 (RII3-CT-2005-026133)
- GiSHEO: On-demand Grid services for training and high education in Earth Observation, 2008-2010, European Space Agency PECS Programme

9 Published papers

9.1 Papers in ISI classified journals and series

9.1.1 LNCS (ISI proceedings)

1. A. Cârstea, M. Frîncu, A. Konovalov, G. Macariu, D. Petcu, On Service-oriented Symbolic Computing, Parallel Processing and Applied Mathematics, LNCS 4967, ISBN-13 978-3-540-68105-2, 2008, Springer, pp. 843-851.
2. M. E. Frîncu, Dynamic Scheduling Algorithm for Heterogeneous Environments with Regular Task Input from Multiple Requests, Grid and Pervasive Computing, LNCS 5529, 2009, Springer, pp. 199-210.

9.1.2 IEEE press (ISI proceedings)

3. A. Cârstea, M. Frîncu, G. Macariu, D. Petcu, K. Hammond, *Generic Access to Web an Grid-based Symbolic Computing Services*, Procs. ISPDG 2007, July 5-8 2007, Hagenberg, IEEE Computer Press, Los alamos, ISBN 0-7695-2917-8, pp. 143-150.
4. G. Macariu, M. Frîncu, A. Cârstea, D. Petcu, A. Eckstein, *Redesigning Parallel Symbolic Computations Packages*, Procs. PACT 2007, 16th International Conference on Parallel Architecture and Compilation Techniques, 15-19 Sept. 2007, ISSN 1089-795X, IEEE Computer Press, pp. 417.
5. M. Frîncu, D. Petcu, *Remote Control for Graphic Applications*, Procs. SYNASC 2007, September 2007, Timisoara, IEEE Computer Press, ISBN 0-7695-3078-8, 2007, pp. 304-309.
6. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Composing Web-based Mathematical Services*, Procs. SYNASC 2007, September 2007, Timisoara, IEEE Computer Press, ISBN 0-7695-3078-8, 2007, pp. 327-334.
7. G. Macariu, A. Cârstea, M. Frîncu, D. Petcu, *Towards a Grid Oriented Architecture for Symbolic Computing*, Procs. ISPDG 2008, July 1-6 2008, Krakow, IEEE Computer Press, ISBN 978-0-7695-3472-5, 2008, pp. 259-266.
8. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Workflow Management for Symbolic Grid Services*, Procs. SYNASC 2008, September 26-29 2008, Timisoara, IEEE Computer Press, ISBN 978-0-7695-3523-4, 2009, pp. 373-380.
9. M. E. Frîncu, *Distributed Scheduling Policy in Service Oriented Environments*, Procs. SYNASC'09, 26-29 Sep, in print.
10. A. Cârstea, G. Macariu, M. E. Frîncu, D. Petcu *Description and Execution of Patterns for Symbolic Computations*, Procs. SYNASC'09, 26-29 Sep, in print.

9.2 Papers in other international refereed journals

11. D. Petcu, A. Cârstea, G. Macariu, M. Frîncu, *Service-oriented Symbolic Computing with SymGrid*, Scalable Computing: Practice and Experience, Volume 9, Number 2, ISSN 1895-1767, 2008, pp. 111-124.
12. M. E. Frîncu, G. Macariu, A. Cârstea, *Dynamic and Adaptive Workflow Execution Platform for Symbolic Computations*, Pollack Periodica, Volume 4, Number 1, Akadémiai Kiadó, HU ISSN 1788-1994, 2009, pp. 145-156.

9.3 Papers in refereed international proceedings

13. M. E. Frîncu, D. Petcu, *On Designing an Asynchronous and Dynamic Platform for Solving Single Task Requests of Remote Applications*, Procs. ICCGI'08. The Third International Multi-Conference on Computing in the Global Information Technology, 2008, pp. 12-18.
14. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Secure Orchestration of Symbolic Grid Services*, Procs. HiperGRID'08, High Performance Grid Middleware 2nd Ed., November 21st, Politehnica Press, ISSN 2065-0701, 2008, pp. 25-32.
15. M. Frîncu, S. Panica, M. Neagul, D. Petcu, *GiSHEO: On Demand Grid Service-based Platform for Earth Observation Data Processing*, Procs. HiperGRID'09, 26-28 May, Politehnica Press, ISSN 2066-4451, 2009, pp. 415-422.

9.4 Papers in national proceedings with international referees

16. D. Petcu, D. Zaharie, H. Popa, M. Frîncu, A. Eckstein, *Grid Services Based on Heuristic Methods for Multi-Objective Optimization Problems*, Procs. CSCS-16, 16th Intern. Conference on Control Systems and Computer Science, 22-25 May, 2007, Printech, vol. 2, ISBN 978-973-718-743-7, pp. 136-141.

9.5 Papers in other international journals

17. M. Frîncu, *Solar activity report Carrington Rotations 2025-2030 (2005-01-2.05 to 2005-06- 14.7)*, Journal of the Association of Lunar and Planetary Observers: The Strolling Astronomer, Volume 48, Number 1, ISSN-0039-2502, pp. 25-27.

18. M. Frîncu, *Solar Activity Report Carrington Rotations 2031-2035 (2005-06-14.8 to 2005- 10-29)*, Journal of the Association of Lunar and Planetary Observers: The Strolling Astronomer, Volume 49, Number 2, ISSN-0039-2502, pp. 21-24.

19. M. Frîncu, *Solar Activity Report Carrington Rotations 2040-2050 (2006-01-2.05 to 2006-06-14.7)*, Journal of the Association of Lunar and Planetary Observers: The Strolling Astronomer, Volume 50, Number 1, ISSN-0039-2502, pp. 24-25.

20. M. Frîncu, *Bringing the sky to every stargazer: The Telescope Grid Project*, Journal of the Association of Lunar and Planetary Observers: The Strolling Astronomer, Volume 50, Number 4, ISSN-0039-2502, pp. 30-33.

9.6 Technical Reports

21. M. Frîncu, M. Quinson, and F. Suter, *Handling Very Large Platforms with the New SimGrid Platform Description Formalism*, Technical Report 0348, INRIA, February, 2008.

22. A. Cârstea, G. Macariu, M. Frîncu, D. Petcu, *Secure Orchestration of Symbolic Grid Services*, Technical Report 08-08, IeAT, 2008.

9.7 Book Chapters

23. 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*, ISBN 978-1-61520-686-5, Information Science Publishing, 2010.

24. 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*, to appear in Vedran Kordic (Ed.): *Image Processing*, InTech, 2010.

9.8 Miscellaneous

9.8.1 Posters

- M. Frîncu, M. Quinson, F. Suter, *A Formalism for the Description of Large Scale Computing Platforms*, CCGRID 2008, May 19-22, 2008, Lyon, 2 page poster.

9.8.2 Presentations

- A. Cârstea, G. Macariu and M. Frîncu, Expressing Workflows Using Grid Enabled Computer Algebra Systems, 2nd SCIENCE Project Meeting, Palaiseau, France, Jan 19-21, 2009.
- M. Frîncu, Complex Image Processing Using Scientific Workflows, Grid Training Days 3rd edition, Timisoara, Romania, Dec 18-19, 2008.
- M. Frîncu, Introduction in Computational Astronomy: Building a Space Simulator, Astronomy Summer School organized by the Board of European Students of Technology, Timisoara, Romania, Jul 27th - Aug 3rd, 2008.
- M. Frîncu, Saturn Observation Campaign, Open Astronomy Days, Astronomical Observatory of Timisoara, Timisoara, Romania, Feb 29th, 2008.
- D. Petcu, A. Cârstea, G. Macariu and M. Frîncu, Grid Services deployment and usage, Grid Training Days 1st edition, Timisoara, Romania, Dec 7-8, 2006.
- M. Frîncu, Astronomical Software-Project Copernicus, Romanian Academy Days, Timisoara, Romania, May 25-26, 2005.