



Dana PETCU

Curriculum vitae

December 14, 2017

1. Identification

Personal data

Date and place of birth: May 12, 1966, Timișoara, Romania
Marital status: Divorced, one child (Paula Petcu)
Birth name: Dana Gioncu
Languages: Romanian, English, German, French

Contacts

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IDs in research indexing services

[Scopus](#), [WoS](#), [ACM Digital Library](#), [Google Scholar](#), [DBLP](#), [DBLP-Viz](#), [Microsoft Academic](#),
[ResearchGate](#), [ORCID](#), [Mendeley](#), [zbMATH](#), [publons](#)

2 Experience

Education

MSc studies	Computer Science	University of Timișoara	September 1984 - June 1988
Tempus	PhD scholarships	University of Heidelberg	Spring Semesters of 1992 & 1993
PhD studies	Numerical Analysis	West University of Timișoara	December 1991 - May 1994

Research experience

Primary: parallel and distributed computing
Secondary: numerical analysis, mathematical software, computer graphics

Teaching experience

Parallel Computing, Cloud computing, Grid computing, Distributed Systems, Mathematical Software, Computer Graphics, Algorithms, Programming Languages

Positions

West University of Timișoara	Assistant 1990-1994, Lecturer 1994-1997, Associate Professor 1997-2003, Professor 2003-present, PhD Advisor 2005-present
Bega-Pam, Timișoara	Programmer 1990
IURT Lugoj	Programmer 1988-1990

Management experience

Vice-rector	West University of Timișoara	2016-present
Director	Institute e-Austria Timișoara	2002-present
	Master studies in Software Engineering, WUT	2010-present
	Computer Science Department, West University of Timișoara	2008-2011
	Undergraduate studies on Computer Science, WUT	2004-2008
	PhD studies in Computer Science, WUT	2012-2016
President	CSCCU - Scientific Council for Research and Creation of the University, WUT	2013-2014
Member	CSUD - University Council for Doctoral studies, WUT	2012-2016
	Senate, WUT	2012-2016

Expert evaluator

European Commission	FP6-IST, FP7-ICT/Capacities/People, ESF, INTAS, H2020-ICT/INFRA
Foreign countries	Bulgarian, Czech, Irish, Italian, Polish, Portugesse, Norwegian, Russian R&D programmes
Romanian	CNCSIS (2001-2004), CEEEX (2005-2007), PNII (2008-2015), PNIII (2017)
PhD defence committees	Romania, Ireland, Spain, Italy, UK

3 Membership

Professional associations

IEEE Society Affiliate; IT History Society; INSTICC

Professional groups

Cloud Computing Expert Group of the European Commission, from 2011 - present

OW2, open source community, from 2013 - present

Coordination of the collaboration activities of Cloud related EC-funded projects: [Novel approaches and technologies for Cloud resource and service management \(NATRES\)](#), from 2015 - present

Domain Expert for Romanian Delegations at European forums

FP7-ICT Committee (2007-2013), Committee for CIP (2007-2008), COST programme - ICT Domain (2007-2008) e-IRG (2008-2015), e-Infrastructure Policy Forum (2011-2013), PRACE Council (2014-2015)

Awards

International: [Maria Sybilla Merian Award](#), 2005;
[IBM Faculty Award](#), 2009

National: ANCS award for the Romanian contribution to FP6 programme, 2006;
[MLNR Award "Spiru Haret"](#), for the Cloud related papers from 2014, June 2015;
[Romanian Academy Award "Gheorghe Cartianu"](#) for the FGCS paper from 2013, December 2015

4 Journal papers

4.1 Journal papers with impact factor and indexed in Web of Science (WoS)

Note:

- Impact factor (IF) as registered in the year of publication
- Categories according to [article influence score \(AIS\)](#) as in [Science Citation Index Expanded 2017](#): 1:., 2:., 3:.;
- Number of citations as exposed in section 13.1 of this document

4.1.1 Elsevier journals

- 2013 1. D. Petcu, G. Macariu, S. Panica, C. Craciun, *Portable Cloud Applications - from Theory to Practice*, Future Generation Computer Systems, vol. 29, issue 6 (2013), 1417-1430, WoS: 000319235600010, doi: [10.1016/j.future.2012.01.009](#), ISSN: 0167-739X (IF: 2.639., citations: 104)
- 2012 2. D. Petcu, S. Panica, M. Frincu, M. Neagul, D. Zaharie, G. Macariu, D. Gorgan, T. Stefanut, *Experiences in building a Grid-based platform to serve Earth observation training activities*, Computers Standards & Interfaces 34 (2012), 493-508, WoS: 000306771800005, doi: [10.1016/j.csi.2011.10.010](#) (IF: 0.978., citations: 3)
- 2005 3. D.Petcu, *The performance of parallel iterative solvers*, Computers & Mathematics with Applications, vol. 50 (2005), ISSN 0898-1221, 1179-1189, WoS: 000232326400020, doi: [10.1016/j.camwa.2005.08.018](#) (IF: 0.43., citations: 4)
- 2003 4. D.Petcu, V.Gioncu, *Computer program for available ductility analysis of steel structures*, Computers & Structures, vol. 81, issues 22-23 (2003), ISSN 0045-7949, 2149-2164, WoS: 000185409800003, doi: [10.1016/S0045-7949\(03\)00296-7](#) (IF: 0.634., citations: 5)
- 2001 5. D.Petcu, *Experiments with an ODE Solver on a Multiprocessor System*, Computers & Mathematics with Applications vol. 42, no. 8-9 (2001), 1189-1199, WoS: 000170803800016, doi: [10.1016/S0898-1221\(01\)00232-2](#), ISSN 0898-1221 (IF: 0.383., citations: 1)
- 1997 6. V.Gioncu, D.Petcu, *Available rotation capacity of wide-flange beams and beam-columns. Part 1. Theoretical approaches*, Journal of Constructional Steel Research, vol. 43, no. 1-3, 1997, ISSN 0143-974X, 161-217, WoS: A1997YE87600008, doi: [10.1016/S0143-974X\(97\)00044-8](#) (IF: 0.259., citations: 54)
7. V.Gioncu, D.Petcu, *Available rotation capacity of wide-flange beams and beam-columns. Part 2. Experimental and numerical tests*, Journal of Constructional Steel Research, vol. 43, no. 1-3, 1997, ISSN 0143-974X, 219-244, WoS: A1997YE87600009, doi: [10.1016/S0143-974X\(97\)00045-X](#) (IF: 0.259., citations: 31)

4.1.2 Springer journals

- 2014 8. D. Petcu, *Consuming Resources and Services from Multiple Clouds: From Terminology to Cloudware Support*, Journal of Grid Computing, ISSN:1570-7873, vol.12, is.2, 321-345, 2014, WoS: 000339887600008, doi:[10.1007/s10723-013-9290-3](https://doi.org/10.1007/s10723-013-9290-3) (IF:1.507_■, citations:46)
9. V. Stankovski, D. Petcu, *Developing a Model Driven Approach for engineering applications based on mOSAIC. Towards Sharing Elastic Components in the Cloud*, Journal of Cluster Computing, vol. 17, issue 1, 2014, 101-110, WoS: 000333111000006, doi: [10.1007/s10586-013-0263-x](https://doi.org/10.1007/s10586-013-0263-x) (IF: 1.510_■, citations: 3)
- 2012 10. N.M. Calcavecchia, B.A.Caprarescu, E. Di Nitto, D. J. Dubois, D. Petcu, *DEPAS: A Decentralized Probabilistic Algorithm for Auto-Scaling*, Computing, vol. 94, issue 8-10, 701-730, ISSN: 0010-485X, WoS: 000307971700005, doi: [10.1007/s00607-012-0198-8](https://doi.org/10.1007/s00607-012-0198-8) (preliminary: Technical Report 2012.5, [259]) (IF: 0.807_■, citations: 18)

4.1.3 Other journals with IF and indexed in WoS

- 2015 11. D. Petcu, S. Panica, C. Craciun, M. Neagul, C. Sandru, *Cloud resource orchestration within an open-source component-based platform as a service*, Concurrency and Computation: Practice and Experience, vol. 27, issue 9, 2443-2469, 2015, WoS: 000355001700016, doi: [10.1002/cpe.3175](https://doi.org/10.1002/cpe.3175) (IF: 0.997_■, Citations: 2)
- 2014 12. A. Agathos, J. Li, D. Petcu, A. Plaza, *Multi-GPU Implementation of the Minimum Volume Simplex Analysis Algorithm for Hyperspectral Unmixing*, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 7, issue 6, 2281-2296, 2014, ISSN: 1939-1404, WoS: 000340621200037, doi: [10.1109/JSTARS.2014.2320896](https://doi.org/10.1109/JSTARS.2014.2320896) (IF: 2.827_■, citations: 18)
13. J. Južna, P. Češarek, D. Petcu, V. Stankovski, *Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC*, Computing in Science and Engineering, vol. 16, issue 4, 68-77, 2014, ISSN: 1521-9615, WoS: 000337263400008, doi: [10.1109/MCSE.2013.135](https://doi.org/10.1109/MCSE.2013.135) (IF: 1.248_■, citations: 1)
- 2010 14. D. Gorgan, V. Bacu, D. Rodila, F. Pop, D. Petcu, *Experiments on ESIP-Environment oriented satellite data processing platform*, Earth Science Informatics, ISSN 1865-0473, vol. 3, no. 4, 2010, WoS: 000286014500011, doi: [10.1007/s12145-010-0065-0](https://doi.org/10.1007/s12145-010-0065-0) (IF: 0.657_■, citations: 6)
- 2005 15. D.Petcu, C.Popa, *A new version of Kovarik's approximate orthogonalization algorithm without matrix inversion*, International Journal of Computer Mathematics, vol. 82, no. 10, 2005, 1235-1246, ISSN 1029-0265, Taylor & Francis Ltd, WoS: 000232207600007, doi: [10.1080/00207160512331331174](https://doi.org/10.1080/00207160512331331174), (IF: 0.254_■, citations: 3)

4.2 Papers that are WoS related

4.2.1 Papers in Springer LNCS series with IF

- 2005 16. D. Petcu, M. Paprzycki, M. Ganzha, *Clustering Multiple and Cooperative Instances of Computational Intensive Software Tools*, LNCS 3606, ISSN 0302-9743, 452-456, WoS: 000232251100040, doi: [10.1007/11535294_40](https://doi.org/10.1007/11535294_40), 2005 (IF: 0.402, citations: 1)
17. C. Bonchiş, G. Ciobanu, C. Izbaşa, D. Petcu, *A Web-Based P Systems Simulator and Its Parallelization*, LNCS 3699, ISSN 0302-9743, 58-69, WoS: 000233391700007, doi: [10.1007/11560319_7](https://doi.org/10.1007/11560319_7), 2005 (IF: 0.402, citations: 2)
- 2004 18. D.Petcu, D.Dubu, M.Paprzycki, *Towards a Grid-aware Computer Algebra System*, LNCS 3036, ISSN 0302-9743, WoS: 000222043200073, doi: [10.1007/978-3-540-24685-5_73](https://doi.org/10.1007/978-3-540-24685-5_73), 490-495, 2004 (IF: 0.515)
19. D.Petcu, D.Dubu, M.Paprzycki, *A Grid-based parallel Maple*, LNCS 3241, ISSN 0302-9743, 215-223, WoS: 000224114000027, doi: [10.1007/978-3-540-30218-6_33](https://doi.org/10.1007/978-3-540-30218-6_33), 2004 (IF: 0.515, citations: 1)
- 2002 20. D. Petcu, H. Popa, D.Țepeneu, *A user-level interface for clustering mathematical software kernels*, LNCS 2336, ISSN 0302-9743, WoS: 000181350300017, doi: [10.1007/3-540-47840-X_17](https://doi.org/10.1007/3-540-47840-X_17), 2002, 175-182 (IF: 0.415)
21. D. Petcu, *Solving large systems of differential equations with PAVIS*, LNCS 2328, ISSN 0302-9743, 2002, 437-445, WoS: 000180067200048, doi: [10.1007/3-540-48086-2_48](https://doi.org/10.1007/3-540-48086-2_48), (IF: 0.415 citations: 1)
- 2001 22. D.Petcu, *Numerical Solution of ODEs with Distributed Maple*, LNCS 1988, ISSN 0302-9743, 2001, 666-674, WoS: 000174201600079, doi: [10.1007/3-540-45262-1_79](https://doi.org/10.1007/3-540-45262-1_79) (IF: 0.415, citations: 2)
23. D. Petcu, *Solving initial value problems with parallel Maple processes*, LNCS 2150, ISSN 0302-9743, 2001, 926-934, doi: [10.1007/3-540-44681-8_129](https://doi.org/10.1007/3-540-44681-8_129) (IF: 0.415, citations: 1)
- 2000 24. D.Petcu, *PVMaple: A Distributed Approach to Cooperative Work of Maple Processes*, LNCS 1908, ISSN 0302-9743, 2000, 216-224, WoS: 000171904500031, doi: [10.1007/3-540-45255-9_31](https://doi.org/10.1007/3-540-45255-9_31) (IF: 0.39, citation: 1)
- 1999 25. D.Petcu, *Solving Initial Value Problems with a Multiprocessor Code*, LNCS 1662, ISSN 0302-9743, 1999, 452-466, WoS: 000165174100047, doi: [10.1007/3-540-48387-X_47](https://doi.org/10.1007/3-540-48387-X_47) (IF: 0.872)

4.2.2 Papers in journals currently indexed in WoS with AIS

- 2006 26. D. Petcu, C. Bonchiş, C. Izbaşa *Symbolic Computations based on Grid Services*, Int. Journal of Computers, Communications and Control, vol. 1, no. 1, 2006, 44-50, ISSN 1841-9836, [link](#) (■)
27. D.Petcu, C. Bonchiş, M. Radu, *Applying Task Farming Model over Grids*, Int. Journal of Computers, Communications and Control, vol. 1, supplement: S, 2006, 371-375, WoS: 000203014800062, [link](#) (■)
- 2005 28. D.Petcu, M.Papryzcki, D.Dubu, *Design and implementation of a grid extension of Maple*, Scientific Programming, vol. 13, no. 2, 2005, ISSN 1058-9244, IOS Press, 137-149, [link](#) (■, citations: 4)
29. D. Petcu, D. Dubu, *An Extension of Maple for Grid and Cluster Computing*, Studies in Informatics and Control, vol. 14, no. 1 (ISSN 1120-1766), 2005, 31-36 [link](#) (■)
- 1994 30. D.Petcu, *A parallel algorithm for stiff ordinary differential equations*, Informatica, Vilnius, 1994, vol.5, no. 3-4, ISSN 0868-4952, doi: [10.3233/INF-1994-53-408](https://doi.org/10.3233/INF-1994-53-408), 373-384 (■)
- 1993 31. D.Petcu, *On the Kantorovich Hypothesis for Newton's Method*, Informatica, Vilnius, 1993, vol. 4, no. 1-2, ISSN 0868-4952, doi: [10.3233/INF-1993-41-213](https://doi.org/10.3233/INF-1993-41-213), 188-198 (■, citations: 2)

4.2.3 Papers in journals currently indexed in Emerging Sources Citation Index from WoS

- 2015 32. D. Petcu, G. Iuhasz, D. Pop, D. Talia, J. Carretero, R. Prodan, T. Fahringer, I. Grasso, R. Doallo, M.J. Martín, B. B. Fraguera, R. Trobec, M. Depolli, F. Almeida Rodriguez, F. de Sande, G. Da Costa, J.-M. Pierson, S. Anastasiadis, A. Bartzokas, C. Lolis, P. Gonçalves, F. Brito, N. Brown, *On Processing Extreme Data*, Scalable Computing: Practice and Experience, vol. 16, issue 4, 2015, 467-489, WoS: 000371914800009, doi: [10.12694/scpe.v16i4.1134](https://doi.org/10.12694/scpe.v16i4.1134)
- 2014 33. D. Petcu, A.V. Vasilakos, *Portability in Clouds: Approaches and Research Opportunities*, Scalable Computing: Practice and Experience, Vol 15, Issue 3, 2014, 251-270, doi: [10.12694/scpe.v15i3.1019](https://doi.org/10.12694/scpe.v15i3.1019) (citations: 25)
- 2012 34. D. Petcu, *A Panorama of Cloud Services*, Scalable Computing: Practice and Experience, vol 13, no. 4, 2012, 303-314, [link](#) (citations: 1)
- 2010 35. M. E. Frincu, D. Petcu, *OSyRIS: a Nature Inspired Workflow Engine for Service Oriented Environments*, Scalable Computing: Practice and Experience, vol. 11, no. 1, ISSN 1895-1767, 2010, 81-97, [link](#) (citations: 3)
- 2008 36. D. Petcu, A. Cârstea, G. Macariu, M. Frincu, *Service-oriented Symbolic Computing with SymGrid*, Scalable Computing: Practice and Experience, vol. 9, no. 2, ISSN 1895-1767, 2008, 111-124, [link](#)
- 2006 37. D. Petcu, D. Vizman and M. Paprzycki, *Heuristic Load Balancing for CFD Codes Executed in Heterogeneous Computing Environments*, Scalable Computing: Practice and Experience, vol. 7, no. 2, 2006, 15-23, [link](#) (citations: 1)
38. D. Petcu, *A Parallel Rule-based System and Its Experimental Usage in Membrane Computing*, Scalable Computing: Practice and Experience, vol. 7, no. 3, ISSN 1895-1767, 2006, 39-49, [link](#) (citations: 2)

4.3 Papers in internationally refereed journals

- 2017 39. S. Panica, B. Irimie, D. Petcu, *Enabling and monitoring platform for cloud-based application*, *International Journal of High Performance Computing and Networking*, International Journal of High Performance Computing and Networking, vol. 10, 2017, [in print](#)
- 2015 40. G. Da Costa, T. Fahringer, J.-A. Rico-Gallego, I. Grasso, A. Hristov, H.D. Karatza, A. Lastovetsky, F. Marozzo, D. Petcu, G. L. Stavrinides, D. Talia, P. Trunfio, H. Astsatryan, *Exascale Machines Require New Programming Paradigms and Runtimes*, Supercomputing Frontiers and Innovations vol 2, No. 2, 6-27, 2015, doi: [10.14529/jsfi150201](https://doi.org/10.14529/jsfi150201) (citations:4)
41. P. Bouvry, R. Mayer, J. Muszynski, D. Petcu, A. Rauber, G. Tempesti, T. Trinh, S. Varrette, *Resilience within Ultrascale Computing System: Challenges and Opportunities from Nesus Project*, Supercomputing Frontiers and Innovations vol 2, No. 2, 46-63, 2015, doi: [10.14529/jsfi150203](https://doi.org/10.14529/jsfi150203)
42. J. Carretero, S. Distefano, D. Petcu, D. Pop, T. Rauber, G. Rünger, D.E. Singh, *Energy-efficient Algorithms for Ultrascale Systems*, Supercomputing Frontiers and Innovations vol 2, No. 2, 77-104, 2015, doi: [10.14529/jsfi150205](https://doi.org/10.14529/jsfi150205) (citations: 2)
- 2014 43. V.I. Munteanu, C.Şandru, D. Petcu, *Multi-cloud resource management: cloud service interfacing*, *Journal of Cloud Computing: Advances, Systems and Applications*, 2014, 3:3, ISSN 2192-113X, doi:[10.1186/2192-113X-3-3](https://doi.org/10.1186/2192-113X-3-3) (citations: 10)
- 2013 44. D. Petcu, B. Di Martino, S. Venticinque, M. Rak, T. Máhr, G. Esnal Lopez, F. Brito, R. Cossu, M. Stopar, S. Šperka, V. Stankovski, *Experiences in Building a mOSAIC of Clouds*, *Journal of Cloud Computing: Advances, Systems and Applications* 2013, Vol. 2, Issue 1, 2:12, Springer, ISSN: 2192-113X, doi: [10.1186/2192-113X-2-12](https://doi.org/10.1186/2192-113X-2-12) (citations: 43)
- 2012 45. A. Bessani, R. Kapitza, D. Petcu, P. Romano, S.V. Gogouvitis, D. Kyriazis, R.G. Cascella, *A look to the old-world sky: EU-funded dependability cloud computing research*, *ACM SIGOPS Operating Systems Review* 46, 2 2012, 43-56, doi: [10.1145/2331576.2331584](https://doi.org/10.1145/2331576.2331584) (citations: 3)
- 2011 46. A. Carstea, M. Frincu, G. Macariu and D. Petcu, *Validation of SymGrid-services framework through event-based simulation*, *Int. J. Grid and Utility Computing*, Vol. 2, No. 1, 2011, doi: [10.1504/IJGUC.2011.039979](https://doi.org/10.1504/IJGUC.2011.039979) (citations: 1)
- 2010 47. D. Petcu, S. Panica, M. Neagul, M. Frincu, D. Zaharie, R. Ciorba, A. Dinis, *Earth Observation Data Processing in Distributed Systems*, *Informatica* 34 (2010), 463-476, [link](#) (citations: 4)
- 2008 48. D. Petcu, *Teaching Grid Technologies to PhD Students, Part 1: Using Best Practices to Build the Course*, *IEEE Distributed Systems Online*, vol. 9, no. 3, 2008, art. no. 0803-o3002, doi: [10.1109/MDSO.2008.10](https://doi.org/10.1109/MDSO.2008.10) (citations: 1)
49. D. Petcu, *Teaching Grid Technologies to PhD Students, Part 2: Course Structure and Experiences*, *IEEE Distributed Systems Online*, vol. 9, no. 4, 2008, art. no. 0804-o4001, doi: [10.1109/MDSO.2008.13](https://doi.org/10.1109/MDSO.2008.13) (citations: 1)
50. D. Petcu, A. Eckstein, C. Giurgiu, *Adapting a Legacy Code for Ordinary Differential Equations to Novel Software and Hardware Architectures*, *Transactions on Computers*, Issue 5, vol. 7, May 2008, 463-472, [ACM DL](#) (citations: 3)
51. D. Petcu, D. Gorgan, F. Pop, D. Tudor, D. Zaharie, *Satellite Image Processing on a Grid-based Platform*, *International Scientific Journal of Computing*, vol. 7, 2008, issue 2, ISSN 1727-6209, 51-58, [link](#) (citations: 2)
- 2007 52. D. Petcu, S. Panica, A. Eckstein, *Land-Cover Classification on Computational Grids*, *International Journal of Computers*, Issue 2, Vol. 1, 2007, ISSN: 1998-4308, 22-27, [link](#) (citations: 1)
53. D. Petcu, *Grid Services for Satellite Image Processing*, *Transactions on Computers*, Issue 2, Vol. 6, ISSN 1109-2750, 347-354, 2007 [link](#) (citations: 2)
54. D. Petcu, *Towards Automated Creation of Clients for Grid Services Wrapping CFD Codes*, *Transactions on Computers*, Issue 3, Vol. 6, ISSN 1109-2750, 573-580, 2007, [link](#)
- 2005 55. D. Petcu, M. Petcu, *Concurrent Instance of a Rule-based System on a Condor Cluster*, *Transactions on Computers*, Issue 8, Vol. 4, ISSN 1109-2750, 995-1002, 2005, [link](#)
56. D.Petcu, *Speedup in solving differential equations on clusters of workstations*, *Int. J. Computational Science and Engineering*, Vol. 1, Nos. 2/3/4, 2005, Inderscience Enterprises Ltd., 134-141, ISSN (Print): 1742-7185, ISSN (Online): 1742-7193, [ACM DL](#) (citations: 1)
- 2002 57. St. Maruster, V. Negru, D. Petcu, C.Şandru — *Intelligent front-end for solving differential and non-linear equations*, *Journal of Mathematical Sciences* 108 (6): 1139-1151, March 2002, ISSN 1072-3374, doi: [10.1023/A:1013560909786](https://doi.org/10.1023/A:1013560909786). Extended version of (58)
- 1999 58. S. Maruster, V. Negru, D. Petcu, S. Calin, *Intelligent Front-End for Solving Differential and Non-Linear Equations Systems*, *Zap. Nauchn. Sem. POMI*, 1999, Volume 258, 318334, [link](#). Preliminary version of (57)
59. D.Petcu, V.Negru, *Interactive system for stiff computations and distributed computing*, *International Journal of Applied Science and Computations*, ISSN 1089-0025, vol. 6, no. 2, 1999 (citations: 1)

4.4 Papers in Romanian refereed journals

- 2012 60. D. Petcu, D. Zaharie, *Experience in Running a Computer Science Masters Programme in English. First Steps towards Internationalization* Quality Assurance Review for Higher Education, Vol. 4, Nr. 1, 2012, 5 - 13, [link](#)
61. L. Donath, D. Petcu, D. Zaharie, M. Boldea, P. Craciun, E. Feker, *The internal evaluation of international master. The case of West University of Timisoara*, Quality Assurance Review for Higher Education, vol. 4, no. 2, 2012, 41-51, [link](#)
- 2009 62. D. Petcu, A. Eckstein, A. Carstea, A. Craciun, *Mathematics on the net: state of the art and challenges*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XLVII, 2, 2009, 95-116 [link](#)
- 2008 63. D. Petcu, S. Panica, *Document Conversions Using Grid-based e-Infrastructure for Digital Libraries*, Scientific Bulletin of "Politehnica" University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, vol. 53 (67), no. 3, 2008, 139-144, [link](#)
- 2006 64. G. Neagu, N. Andrei, V. Sima, Al. Stanciu, N. Tapus, V. Cristea, C. Nae, R. Potolea, D. Petcu, *The virtual organisation GridMOSI - a component of the national research infrastructure* (in Romanian), Revista Romana de Informatica si Automatica, ISSN 1220-1758, vol. 16, nr. 4, 2006, 113-120
- 2004 65. D.Petcu, *Software issues in solving initial value problems for ordinary differential equations*, Creative Mathematics, North University of Baia Mare, vol. 13, 2004, 97-110, [link](#) (citations: 3)
66. D. Petcu, *Building a computational grid: design issues*, Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, Informatică, Tomul XV, 2004, 139-152.
67. C.Popa, D. Petcu, M. Petcu, *On Kovarik's Orthogonalization Algorithm without Matrix Inversion*, Scientific Bulletin of "Politehnica" University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, Vol.49 (63), 2004, ISSN 1224-600X, 223-226
68. D.Petcu, D.Dubu, *Mapping general purpose scientific computing environments onto a computational grid*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XLII, 2004, 197-212, [link](#)
- 2002 69. D.Petcu, C.Popa, *On the Parallel Implementation of Kovarik's Approximate Orthogonalization Algorithm*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XL, 2002, 197-212, [link](#)
70. D. Petcu, *On the speedup of parallel iterative numerical methods*, Analele Științifice ale Universității "Al. I. Cuza" din Iași, Tomul XI, 2002, p. 304-317, [link](#)
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- 2015 256. D. Petcu, *Service Quality Assurance in Multi-Clouds*, preview of (93), IeAT Technical report, 2015, [link](#)
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- 2005 262. D.Petcu, Software Issues in Solving Initial Value Problems for Ordinary Differential Equations IeAT Technical Report 05-04, [link](#)
- 2004 263. D.Petcu, D. Dubu, *An Extension of Maple for Grid and Cluster Computing*, IeAT Technical Report 04-03, [link](#)
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266. D.Petcu, A. Oprean, Constructing a Grid Portal IeAT Technical Report 03-08, [link](#)
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7 Books

7.1 Book chapters

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273. G. Iuhasz, S. Panica, C. Crăciun, D. Petcu, *Deployment of Cloud Supporting Services, Model-Driven Development and Operation of Multi-Cloud Applications*, Part of the series SpringerBriefs in Applied Sciences and Technology pp 69-80, 2016, doi: [10.1007/978-3-319-46031-4_8](#)
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- 1996 302. D. Petcu, *Parallel Numerical Algorithms. Part I: Solving systems of linear, nonlinear or differential equations*, Mathematical Monographs 60, Tipografia Universității din Timișoara, 1996, 148 pages.
303. D. Petcu, *Parallel Numerical Algorithms. Part II: Solving partial differential equations*, Mathematical Monographs 61, Tipografia Universității din Timișoara, 1996, 134 pages.
- 1995 304. D. Petcu, *Multistep Methods for Stiff Initial Value Problems*, Mathematical Monographs 50, Tipografia Universității din Timișoara, 1995, 186 pages.
- 1994 305. D. Petcu, *Parallel computing* (in Romanian), Editura de Vest, Timișoara, 1994, ISBN 973-36-0227-2, 160 pages.

7.3 Textbooks

- 2006 306. D. Petcu, *Grid architectures and technologies* (in Romanian), Ed. Eubeea, Timișoara, ISBN 973-673-056-7, 2006, 292 pages. (citations: 3)
307. L. Cucu, V. Iordan, V. Negru, D. Petcu, G. Petrov, P. Popovici, D. Zaharie, *Tests for informatics exams* (in Romanian), Ed. Mirton, Timișoara, ISBN 973-661-844-7, 2006, 166 pages.
- 2004 308. D. Petcu, D. Pop, *Modeling three-dimensional world* (in Romanian), Ed. Eubeea, Timișoara, ISBN 973-673-011-5, 2004.
- 2002 309. D. Petcu, V. Negru, *Distributed processing* (in Romanian), Editura Universității de Vest, Seria Alef, 2002, Timișoara, ISBN 973-85552-8-0 (citations: 2)
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 316. D.Petcu, L.Cucu, *Computer graphics principles* (in Romanian), Edit. Excelsior, Timișoara, 1995, ISBN 973-9015-51-4
 1994 317. D.Petcu, *Parallel algorithms* (in Romanian), Tipografia Universității Timișoara, 1994.

8 Special talks

8.1 Invited talks

- 2017 • D. Petcu, *Mastering the heterogeneity in HPC as a Service*, NESUS Sixth Working Group, Bayreuth, Apr 2017, [link](#)
 2016 • D. Petcu, *Service Quality Assurance for Cloud-based Data-intensive Applications*, SEE Data Science Forum, Belgrad, June 2016, [link](#) and [abstract](#)
 • D. Petcu, *Big Data and DevOps in the Cloud: The role of monitoring and DICE approach*, NESUS Fifth Working Group Meeting, Ljubljana, Jul 2016, [link](#)
 2014 • D. Petcu, *Challenges of Multi-Clouds*, AMGCC14 / ICAC, 2014, London, September 2014, [link](#)
 2012 • D. Petcu, *Benefits and Barriers of Symbolic Computations on Clouds and Grids*, ACA 2012, Sofia, June 2012, [link](#)
 2009 • D. Petcu, *Challenges of Data Processing for Earth Observation in Distributed Environments*, IDC 2009 - 3rd International Symposium on Intelligent Distributed Computing, Cyprus, [link](#)
 2007 • D. Petcu, *Distributed Symbolic Computations*, Invited talk, ISPDC, 2007, July 5-8 2007, Hagenberg, [link](#)
 • D. Petcu, *Trends in Grid Computing*, Procs. SACCS 2007, Iasi, 9th Internat. Symposium on Automatic Control and Computer Science, Proceedings, CD version, ISSN 1843-665-X
 • D.Petcu, *Mathematics on the net: state-of-the-art and challenges*, 8th French-Romanian Colloquium on Applied Mathematics, 28-31 August 2006, Chambéry, France
 2005 • D.Petcu, *Software issues in solving initial value problems for ordinary differential equations*, ICCAM 2005, Baia Mare.
 2002 • D. Petcu, *Applications of multiprocessing in solving differential equations*, Simpozion Intinerant, Secțiunea Matematică Aplicatăși Informatică, Constanța, 16.01.2002

8.2 Invited keynotes

- 2017 • D. Petcu, *HPC as a Service: Challenges and Limitations*, ISPDC 2017, Innsbruck, July 2017, [link](#)
 2015 • D. Petcu, *Service quality assurance in multi-clouds*, GECON 2015, Cluj, Sept 2015, [link](#)
 2012 • D. Petcu, *HPC in the Cloud*, CLASS Conference 2012, Bled, Oct 2012
 • D. Petcu, *From a Desktop to a Supercomputer, Cluster, Grid, Cloud, InterCloud: Where my Research Code Should Run?*, ComputationWorld 2012, Nisa, July 2012, [link](#)
 • D. Petcu, *The Cloudy Sky of Programmable Infrastructures*, HEUNET workshop at SAINT, 2012, Izmir, July 2012, [link](#)
 • D. Petcu, *Building European consensus on sustainability*, e-FISCAL workshop, Samos, July 2012, [link](#)
 • D. Petcu, *Open-source platform-as-a-service: requirements and implementation challenges*, High Performance Computing, Grids and Clouds, Cetraro, June 2012, [link](#)
 2011 • D. Petcu, *How is built a mOSAIC of Clouds*, International Research Workshop on Advanced High Performance Computing Systems Cetraro, Italy, June 27 - 29, 2011, [link](#)
 2010 • D.Petcu, *From Grid Computing towards Sky Computing. Case study for Earth Observation*, CGW 2010 - Cracow Grid Workshop, October 11-13, 2010, Cracow, [link](#)
 2009 • D. Petcu, *Grid-based Services for High Education in Earth Observation*, 4th GRID & e-Collaboration Workshop, 25-26 Feb. 2009, Frascati, [link](#)
 • D.Petcu, *e-Science and Grids*, EWM 2009, NoviSad, August 2009
 2008 • D. Petcu, *Recent experiences in Grid-enabling legacy software codes*, presentation at Alice workshop, Sibiu, 2008.
 • D. Petcu, S. Panica, *Using Desktop Grids for Evolutionary Multi-objective Optimization*, DAPSYS 2008, Debrecen.
 2001 • D. Petcu, *ODE solving environment with distributed computing facilities*, Advanced Environments and Tools for High Performance Computing: EuroConference on Problem Solving Environments for Numerical Mathematics, Science and Engineering Applications, Castelvecchio Pascoli, 16-21.07.2001.
 1996 • D.Petcu, *Parallel Calculus for Solving Differential Equations*, PARADIS 96, International Summer School on parallel and distributed systems, Vatra Dornei, 26-30.08.1996, 1-19.

8.3 Invited project presentations

- 2014 • D. Petcu, *MODAClouds project*, European Project Space, CLOSER 2014, Barcelona, April 2014
 2013 • D. Petcu, *Modelling Quality of Service for the Cloud*, Engineering the Cloud, ICT 2013, Vilnius, November 2013.
 • D. Petcu, *Towards Application Level Interoperability in Multi-Clouds*, Cloud Standards and Interoperability Workshop, CloudPlugFest 2013, Madrid, September 2013.
 • D. Petcu, *HOST & ICAM. Case study of synergies between FP7-RegPOT and Structural Funds*, A Research Potential capitalization exercise: Thematic workshop on capacity building Stairway to excellence, Brussels, June 2013.
 2012 • D. Petcu, *Open-source platform-as-a-service*, 2nd Working Meeting of IFIP WG on Services-oriented Systems, Bologna, September 2012
 • D. Petcu, *Storage and Software Components Management in Multiple Clouds using mOSAIC*, e-Challenges 2012, Lisbon, October 2012
 • D. Petcu, *mOSAIC- facts, objectives and current results*, CLASS conference, Bled, October 2012
 • D. Petcu, *How to build a reliable mOSAIC of multiple Cloud services*, EWDC 2012, Sibiu, May 2012, [link](#)

8.4 Invited papers

2014

- D. Petcu, E. Di Nitto, D. Ardagna, A. Solberg, G. Casale, *Towards Multi-Clouds Engineering*, 2014 IEEE INFOCOM. Workshop on Cross-Cloud Systems, April 2014, Toronto.
- 2011 • D.Petcu *Portability and Interoperability between Clouds: Challenges and Case Study*, ServiceWave 2011, Poznan, [link](#)

8.5 Invited tutorials

- 2014 • D. Petcu, *Multi-Clouds: from models to runtime support*, SummerSOC 2014, Advanced School on Service Oriented Computing, Hersonissos, July 2014, [link](#)
- 2013 • D. Petcu, *Cloud Management Software for Multi-Clouds*, Cloud computing SummerSchool, "Paving the way to the Cloud", Almere, July 2013.
- 2012 • D. Petcu, *How to Port an Application Between Clouds?*, ADAPTIVE 2012, Nice, July 2012, [link](#)
- 2011 • D. Petcu, *Playing with the mOSAIC of Clouds*, Contrail Summer School On Cloud and Grid computing, Hyères-les-Palmiers, France, June 27-July 1, 2011, [link](#)
- 2003 • D.Petcu, *Experiments with ODE and CFD Codes on Clusters*, Dagstuhl Seminar nr. 03211, May 18-23 2003, published in IJPDEC in 2005, no. 3/4.
- 1997 • D.Petcu, V.Gioncu, *DUCTROT '97, Ductility of rotation – Rotation Capacity of Steel Beams and Beam Columns*, Roma, Napoli, Salerno si Lecce (tutorials), 16.10.97-30.10.1997, TEMPUS JEP 11297.

8.6 Invited lectures

- 2015 • D. Petcu, *Cloud Computing*, TEMPUS+ lecture at University of Pavia, 28-29 April 2015, [link](#)
- 2013 • D. Petcu, *The challenges of Multi-Clouds*, seminar at University of Pavia, December 19, 2013, [link](#)
- D. Petcu, *Cloud Computing challenges from a developer to a provider point of view*, seminar at University Carlos III Madrid, January 29-30 2013.
- 2005 • D.Petcu, *Extending Computer Algebra Systems to the Grids: State-of-the-art, Design and Implementation*, 28.01.2005, Seconda Universita di Napoli, Italy
- 1997 • D.Petcu, V.Negru, *EPODE, front-end user interface for solving ODEs – implementation of some parallel algorithms*, PARADIS 97, Advanced Informatics Summer School, Parallel and Distributed Computer Systems, Mangalia, 1-10.

8.7 Invitations to expert panels

- 2014 • D. Petcu, *Security in MultiClouds*, 2014 IEEE COMPSAC, IEEE Convergence Panel, Västerås, Sweden, July 2014
- D. Petcu, *Challenges of Cross-Clouds*, 2014 IEEE INFOCOM. Workshop on Cross-Cloud Systems, Toronto, April 2014
- D. Petcu, *Cloud computing perspective in R&D projects*, European Project Space, CLOSER 2014, Barcelona, April 2014.
- 2013 • D.Petcu, *Multiple Clouds and multiple interest communities: challenges in developing open-source software in Cloud-related collaborative projects*, Community Summit: Open Source Communities as Collaborative Innovation Platforms, Opportunities and Challenges, Open World Forum 2013, Paris, Oct 2013.
- 2012 • D. Petcu, *Perspective on Fog computing*, FOG Panel, CLASS Conference, Bled, Oct 2012
- D. Petcu, *Where my application should run? HPC, Grids or Clouds?*, e-Fiscal workshop, Panel: e-Infrastructure for research and science: owned, leased or hybrid approaches? July 2012, Samos
- D. Petcu, *e-IRG and mOSAIC position*, CloudScape IV, Panel: Trust, Legal & Security Issues in Cloud Computing, Feb 2012, Brussels
- 2008 • D. Petcu, *HPC in Romania*, PARA 2008, Panel 2: Future Trends in Parallel & Scientific Computing, May 2008, Trondheim
- 2006 • D.Petcu, *QoS in Grid environments*, ICCGI Panel: Integrated Network and Application QoS for GRID Applications, July 30, 2006, Bucharest

9 Contributions to research policy documents

- 2016 • InfraCluster of Cloud related projects, [White paper](#), April 2016
- 2015 • InfraCluster of Cloud related projects, [Recommendations](#) for the workprogramme H2020-ICT-2018-2019, December 2015
- InfraCluster of Cloud related projects, [Map of challenges](#), October 2015
- 2012 • e-IRG Task Force on Cloud Computing, [Cloud Computing for research and science: a holistic overview, policy, and recommendations](#), 30 Oct 2012,
- Cloud Computing Expert Group Report, [Advances in Clouds. Research in Future Cloud Computing](#), May 2012
- Cloud Expert Group Recommendations, [A Roadmap for Advanced Cloud Technologies under H2020](#), December 2012

10 Editorial activity

10.1 Editor-in-Chief

- 2009 • Scalable Computing: Practice and Experience ([SCPE](#), from 2009), in WoS from 2015

10.2 Member in editorial board

- 2016 • EAI Endorsed Transactions on Cloud Systems, ISSN: 2410-6895 ([CloudSys](#), from 2016)
- 2014 • Complex Systems Informatics and Modeling Quarterly, ISSN: 2255-9922 ([CSIMQ](#), from 2014)
- 2013 • Soft Computing and Networking, ISSN: 2052-8450 ([IJSCN](#), from 2013)
- 2008 • International Scientific Journal of Computing, ISSN: 2312-5381 ([CISJ](#) from 2008)
- 2006 • Multiagent and Grid Systems, ISSN: 1574-1702 ([MAGS](#), from 2006), in WoS
- Journal on Computer Science and Information Systems, ISSN: 1646-3692 ([IJCSIS](#), from 2006),

- International Review on Computers and Software, ISSN: 1828-6003 ([IRECOS](#), from 2006),
- International Journal of Computers, Communications and Control, ISSN 1841-9836 ([IJCCC](#), from 2006), in WoS
- 2005 • International Journal of Computer Science and Applications, ISSN: 0972-9038 ([IJCSA](#), from 2005)
- Scalable Computing: Practice and Experience ([SCPE](#), from 2005), in WoS

10.3 Journal reviewer

- 2017 • IEEE Journal on Selected Areas in Communications ([JSAC](#), from 2017)
- Applied Soft Computing ([ASOC](#), from 2017)
- Sustainable Computing, Informatics and Systems([SUSCOM](#), from 2017)
- Software: Practice and Experience ([SPE](#), from 2017)
- Symmetry ([Symmetry](#), from 2017)
- IEEE Access ([Access](#), from 2017)
- Computer Languages, Systems & Structures ([COMLAN](#), from 2017)
- Journal of Software: Evolution and Process ([JSME](#), from 2017)
- Studies in Informatics and Control ([SIC](#), from 2017)
- International Journal of Services Technology and Management ([IJSTM](#), from 2017)
- Open Cybernetics & Systemics Journal ([TOCSJ](#), from 2017)
- 2016 • Transactions on Large Scale Data and Knowledge Centered Systems ([TLDKS](#), from 2016)
- International Journal of Cooperative Information Systems ([IJCIS](#), from 2016)
- Computing and Informatics ([CAI](#), from 2016)
- Journal of Applied Remote Sensing ([JARS](#), from 2016)
- ACM Computing Surveys ([CSUR](#), from 2016)
- International Journal of Computer Engineering Research ([IJCER](#), from 2016)
- Journal of King Saud University - Computer and Information Sciences ([JKSU-CIS](#), from 2016)
- International Journal of High Performance Computing Applications ([IJHPCA](#), from 2016)
- 2015 • Journal of Sensors ([JS](#), from 2015)
- Journal of Hydrology ([HYDROL](#), from 2015)
- Scientific Programming ([SP](#), from 2015)
- Journal of Computer Networks and Communications ([JCNC](#), from 2015)
- IEEE Transactions on Services Computing ([TSCSI](#), from 2015)
- Central European Journal of Computer Science ([CEJCS](#), from 2015)
- Journal of Systems and Software ([JSS](#), from 2015)
- Computers & Mathematics with Applications ([CAMWA](#), from 2015)
- Egyptian Informatics Journal, Elsevier ([EIJ](#), from 2015)
- 2014 • Mathematical Problems in Engineering ([MPE](#), from 2014)
- Journal of Web Engineering ([JWE](#), from 2014)
- Journal of Computational and Applied Mathematics ([CAM](#), from 2013)
- Journal of Cloud Computing: Advances, Systems and Applications ([JOCASA](#), from 2014)
- International Journal of Distributed Sensor Networks ([IJDSN](#), from 2014)
- Peer-to-Peer Networking and Applications ([PPNA](#), from 2014)
- International Journal of Digital Earth ([IJDE](#), from 2014)
- Data & Knowledge Engineering ([DATA-K](#), from 2014)
- IEEE Transactions on Computers ([TC](#), from 2014)
- Journal of Parallel and Distributed Computing ([JPDC](#), from 2014)
- IEEE Systems Journal ([ISJ](#), from 2014)
- IEEE Cloud Computing Magazine ([CCM](#), from 2014)
- Concurrency and Computation: Practice and Experience ([CCPE](#), from 2014)
- Environment Research ([ER](#), from 2014)
- 2013 • Journal of Universal Computer Science([J.UCS](#), from 2013)
- International Journal of Advanced Computer Science and Applications ([IJACSA](#), from 2013 until 2017)
- Geoinformatics & Geostatistics: An Overview ([GIGS](#), from 2013)
- Computer Science ([CSCI](#), from 2013)
- Applied Mathematics & Information Sciences ([AMIS](#), from 2013)
- Simulation Modelling Practice and Theory ([SIMPAT](#), from 2013)
- Computing ([COMP](#), from 2013)
- IEEE Transactions on Cloud Computing ([TCC](#) from 2013)
- World Wide Web: Internet and Web Information Systems ([WWW](#), from 2013)
- Informatica ([Informatica](#), from Vilnius, 2013)
- 2012 • Scientific Research and Essays ([SRE](#), from 2012)
- IEEE Transactions on Dependable and Secure Computing ([TDSC](#), from 2012)
- Computer Science and Information Sciences ([ComSIS](#), from 2012)
- IEEE Transactions on Parallel and Distributed Systems ([TPDS](#), from 2012)
- Journal of Network and Computer Applications ([JNCA](#), from 2012)
- IEEE Computer ([Computer](#), from 2012)
- 2011 • Journal of Grid Computing, Springer ([JGC](#), from 2011)
- 2010 • Computer Standards & Interfaces, Elsevier ([CSI](#), from 2010)
- Journal of Supercomputing ([JoS](#), from 2010)
- Journal of Computational Science ([JoCS](#), from 2010)
- 2008 • Information Sciences, Elsevier ([INS](#), from 2008)
- 2007 • Engineering Applications of Computational Fluid Mechanics ([JEACFM](#), from 2007)

- International Journal of Grid and Utility Computing (**IJGUC**, from 2007)
- Bulletin of the Belgian Mathematical Society (**BBMS**, from 2007)
- International Journal of Computational Science and Engineering (**IJCSE**, from 2007)
- 2006 • Mathematical Reviews (**MR**, from 2006 until 2012),
- International Journal of Computer Mathematics, Taylor & Francis (**IJCM**, from 2006)
- 2005 • Computing Reviews (**CR**, from 2005 until 2013),
- Journal of Systemics, Cybernetics and Informatics (**JSCI**, from 2005),
- Parallel Computing, Elsevier (**PARCO**, from 2005)
- Future Generation Computer Systems, Elsevier (**FGCS**, from 2005),
- 1998 • Annals of West University of Timișoara, Mathematical-Computer Science Series (**AWUTM**, from 1998)
- 1993 • Zentralblatt für Mathematik (**ZBL**, from 1993)

10.4 Journal editorials

- 2018 • G.A. Gravvanis, J.P. Morrison, D. Petcu, T. Lynn, C.K. Filetos-Papadopoulos, *Special Issue: Recent trends in cloud computing*, Future Generation Computer Systems, Vol. 79, Part 2, Feb 2018, 700-702 [10.1016/j.future.2017.11.006](https://doi.org/10.1016/j.future.2017.11.006)
- 2016 • D. Petcu, *Introduction to the Special Issue on New Approaches for Infrastructure Services*, Scalable Computing: Practice and Experience 17 (4), iii-iv, doi: [10.12694/scpe.v17i4.1199](https://doi.org/10.12694/scpe.v17i4.1199)
- 2013 • V. Stankovski, D. Petcu: *Editors's Introduction to the Special Issue on "Grid, Cloud and Sky Applications for Knowledge-based Industries and Businesses"*. Informatica (Slovenia) 37(2): 113 (2013), [link](#)
- 2012 • J.L. Vasquez-Poletti, D. Petcu, F. Lelli, *Introduction to the Special Issue - Selected papers from the International Workshop on Clouds for Business and Business for Clouds*, Scalable Computing: Practice and Experiences 13 (3), 2012, [link](#)
- D. Petcu, D. Zaharie, *Agent based systems & semantic software services*, Scalable Computing: Practice and Experiences 13 (1), 2012, [link](#)
- 2011 • D. Petcu, J.L. Vasquez-Poletti, *Introduction to the Special Issue - Selected Papers from the 2nd Workshop on Software Services*, Scalable Computing: Practice and Experiences 12 (3 & 4), 2011, [link-1](#) and [link-2](#)
- D. Petcu, M. Paprzycki, *Introduction to the Special Issue - New Directions in Cloud and Grid Computing*, Scalable Computing: Practice and Experiences 12 (2), 2011, [link](#)
- D. Petcu, A. Galis, *Introduction to the Special Issue - Selected Papers from the 1st Workshop on Software Services*, Scalable Computing: Practice and Experiences 12 (1), 2011, [link](#)
- 2010 • D. Petcu, E. Deelman, N. Meyer, M. Paprzycki *Introduction to the Special Issue - Grid and Cloud Computing and their Application*, Scalable Computing: Practice and Experiences 11 (2), 2010, [link](#)
- 2008 • D. Petcu, P. Stpiczynski, *Editorial to Special Section on Multi-Agent Systems and Large-Scale Distributed Systems*, International Transactions on Systems Science and Applications (ITSSA), Vol. 3, No. 4, 2008, p. 289, ISSN 1751-1461
- 2007 • D. Petcu, *Practical Aspects of Large-Scale Distributed Computing*, Scalable Computing: Practice and Experience (SCPE) 8 (3), 2007 (electronic version, ISSN 1097-2803, [link](#))
- D. Petcu, *Challenges concerning symbolic computations on grids*, Scalable Computing: Practice and Experience (SCPE) 6 (3), 2005 (electronic version, ISSN 1895-1767, [link](#))

10.5 Proceedings editor

- 2016 • J. Davenport, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. Watt, D. Zaharie, 2016 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp. Soc., ISBN:978-1-5090-5707-8
- J. Carretero, J. Garcia Blas, D. Petcu (Eds), Proceedings of the First PhD Symposium on Sustainable Ultrascale Computing Systems (NESUS PhD 2016) Timisoara, Romania, ISBN: 978-84-608-6309-0, [link](#)
- 2015 • L.Kovacs, V.Negru, T.Ida, T.Jebelean, D.Petcu, S.Watt, D.Zaharie (eds.), 2015 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp. Soc., ISBN:978-0-7695-5742-2
- 2014 • F.Winkler, V.Negru, T.Ida, T.Jebelean, D.Petcu, S.Watt, D.Zaharie(eds.): 2014 16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp. Soc., ISBN:978-1-4799-8447-3
- 2013 • N.Bjorner, V.Negru, T.Ida, T.Jebelean, D.Petcu, S.Watt, D.Zaharie(Eds.): 2013 15th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp. Soc., ISBN:978-1-4799-3035-7
- 2012 • A.Voronkov, V.Negru, T.Ida, T.Jebelean, D.Petcu, S.Watt, D.Zaharie, 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2012, IEEE Comp. Soc., ISBN:978-0-7695-4934-7, [link](#)
- D. Petcu, E. Troubitsyna (eds.): ADAPTIVE 2012, 4th International Conference on Adaptive and Self-Adaptive Systems and Applications, ISBN: 978-1-61208-219-6
- 2011 • D.Wang, V.Negru, T.Ida, T.Jebelean, D.Petcu, S.M.Watt, D.Zaharie (Eds.): 2011 13th International Symposium on Symbolic & Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp. Soc., ISBN 978-1-4673-0207-4 [link](#)
- B. Di Martino, D. Petcu, *CCPI 2011: Workshop on Cloud Computing Projects and Initiatives*, LNCS 7155, EuroPar, 2011 Workshops, 1-3, WoS: 000371303500001, doi: [10.1007/978-3-642-29737-3_1](https://doi.org/10.1007/978-3-642-29737-3_1)
- 2010 • T. Ida, V. Negru, T. Jebelean, D. Petcu, S. Watt, D. Zaharie (eds.), SYNASC 2010, 12th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computer Press, ISBN: 978-0-7695-4324-6, [link](#)
- B. Di Martino, D. Petcu, *CCPI 2010: Workshop on Cloud Computing Projects and Initiatives*, LNCS 6586, EuroPar, 2010 Workshops, 551-553, WoS: 000371301900067, doi: [10.1007/978-3-642-21878-1_67](https://doi.org/10.1007/978-3-642-21878-1_67)
- 2009 • N. Abdennadher, D. Petcu, *Advances in Grid and Pervasive Computing*, 4th Int. Conf. GPC, 2009, Springer, ISSN 0302-9743, ISBN 978-3-642-01670-7, LNCS 5529, [link](#)
- S. Watt, V. Negru, T. Ida, T. Jebelean, D. Petcu, D. Zaharie, Proceedings of SYNASC 2009, 11th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computer Press, ISBN 978-0-7695-3964-5, [link](#)
- 2008 • V. Negru, T. Jebelean, D. Petcu, D. Zaharie, Proceedings of SYNASC 2008, 10th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computer Press, ISBN 978-0-7695-3523-4, [link](#)
- 2007 • V.Negru, D.Petcu, D.Zaharie, A. Abraham, B. Buchberger, A. Cicortas, D. Gorgan, J. Quinqueton, 2007 9th Int.Symp.on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Comp.Press, ISBN 0-7695-3078-8 [link](#)
- 2006

- D.Petcu, B.Foliot, D.Grigoras, J.Morrison, M.Paprzycki, I. Scherson, B.Toursal, M.Tudruj (eds.), *ISPDC* 2006, 5th Int. Symp. on Parallel and Distributed Computing, IEEE Computer Press, ISBN 0-7695-2638-1, [link](#)
- V.Negru, D.Petcu, D.Zaharie, A. Abraham, B. Buchberger, A. Cicortas, D. Gorgan, J. Quinqueton, Proceedings of *SYNASC* 2006, 8th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, September 25-29, 2006, Timisoara, IEEE Computer Press, Los Alamitos, ISBN 978-0-7695-2740-6, 2006, 460 pages, [link](#)
- 2005 • D.Zaharie, D.Petcu, V.Negru, T.Jebelean, G.Ciobanu, A. Cicortas, A. Abraham, M. Paprzycki, Proceedings of *SYNASC* 2005, 7th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, September 25-29, 2005, Timisoara, IEEE Computer Press, Los Alamitos, ISBN 0-7695-2453-2, 2005, 470 pages, [link](#)
- Abramson, D. , Alexandrov, V. , Ashworth, M. , Buyya, R., Coddington, P. , Deelman, E. , De Roure, D. , Hawick, K., King, C.T., Laforenza, D., Lau, F.C.M., Moore, R., Morrison, J., Ong, H., Paprzycki, M., Parastatidis, S., Petcu, D., Rana, O., Uthayopas, P., Wang, C.-L., Williams, R., Yang, J., Yunck, T., Zhang, L.-J., Katz, D.S., Baker, M., Proceedings of the International Conference on Parallel Processing Workshops, 2005
- 2004 • D.Petcu, V.Negru, D. Zaharie, T. Jebelean, Proceedings of *SYNASC* 2004, 6th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, September 26-30, 2004, Timisoara, Ed. Mirton, Timisoara, ISBN 973-661-441-7
- 2003 • D.Petcu, V.Negru, D. Zaharie, T. Jebelean, Proceedings of *SYNASC* 2003, 5th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, October 1-4, 2003, Timisoara, Ed. Mirton, Timisoara, ISBN 973-661-104-3
- 2002 • D.Petcu, V.Negru, D. Zaharie, T. Jebelean, Proceedings of *SYNASC* 2002, 4th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, October 9-12, 2002, Timisoara, Ed. Mirton, Timisoara, ISBN 973-585-785-5, 2002

10.6 Book editor

- 2016 • E. Di Nitto, P. Matthews, D. Petcu, A. Solberg, Model-Driven Development and Operation of Multi-Cloud Applications. The MODAClouds Approach, Springer International Publishing, eBook ISBN 978-3-319-46031-4, Softcover ISBN 978-3-319-46030-7, Series ISSN 2282-2577 doi [10.1007/978-3-319-46031-4](#) (open access) (citations: 3)
- 2012 • D.Petcu, J.L. Vázquez-Poletti, European Research Activities in Cloud Computing, Cambridge Scholars Publishing, UK, 2012, ISBN (10): 1-4438-3507-2, ISBN (13): 978-1-4438-3507-7, [link](#) (citations: 4)

10.7 Book introductions

- 2013 • D. Petcu, A. Galis, and S. Karnouskos, *The Future Internet Cloud: Computing, Networking and Mobility*, in Alex Galis, Anastasius Gavras (Volume Eds.) *The Future Internet – Future Internet Assembly 2013: Validated Results and New Horizons*, doi: [10.1007/978-3-642-38082-2](#), LNCS 7858, XXI- XXIII, 2013, [link](#)

10.8 Book reviews

- 2008 • D. Petcu, A Comprehensive Development Guide for the Globus Toolkit, IEEE Distributed Systems Online, vol. 9, no. 6, 2008, art. no. 0806-o6003, doi: [10.1109/MDSO.2008.15](#) (citations: 3)
- 2005 • D. Petcu, Parallel Numerical Applications on Grid Environments, IEEE Distributed Systems Online, vol. 6, no. 4, Apr., 2005, [10.1109/MDSO.2005.21](#)

11 Conference organization

11.1 Member in steering committees of conference series/Advisory Committee

- 2018 • DS-DC (from 2018)
- 2015 • OBD (from 2015),
- 2006 • *ISPDC* (from 2006)
- 2003 • *SYNASC* (from 2003)

11.2 Event organizer or co-organizer/ local chair/ programme chair

- 2018 • *ICAC* (IT)
- 2017 • *Innovate-Data* (CZ), Mobile, Hybrid and Emerging Cloud track & TAPEMS workshop/*CCGrid* (ES), *SOSemC/ICAC* (US), *WSC/FedCSIS* (CZ)
- 2016 • *SOSemC/ICAC* (AT), *ICA3PP*/Track BigData&Appl (SP), *CLIoT/ESOCC* (AT), *MICAS* and *HPC-ST/SYNASC* (RO), *WSC/FedCSIS* (PL)
- 2015 • *AIMC/Eurosys* (FR), *CLIoT* (IT), *MICAS* and *HPC-E5/SYNASC* (RO)
- 2014 • *MultiCloud/CLOSER* (SP), *MICAS* and *HPCReS/SYNASC* (RO), *C4Bio/CCGrid* (US), *SCoDiS-LaSCoG* (PL), *SoftwareArch/FiCloud* (ES)
- 2013 • *MoCSop* (ES), *MICAS* and *HPCSP/SYNASC* (RO)
- 2012 • *WoSS-4/CLASS* (SL), *C4BB4C/ISPA* (ES), *EIDWT* (RO), *CeBPM/WISE* (CY), *MICAS* and *WoHS/SYNASC* (RO)
- 2011 • *CCPI/Euro-Par* (FR), *WoSS-2/SYNASC* (RO) -3/*FedCSIS* (PL), *IDAACS* (CZ), *SCoDiS-LaSCoG* (PL)
- 2010 • *CCPI/Euro-Par* (IT), *WoSS-1/SYNASC* (RO), *SCoDiS-LaSCoG/FedCSIS* (PL)
- 2009 • *GPC* (CH), *LaSCoG* (PL), *SYNASC* (RO)
- 2008 • *LaSCoG* (PL), *GridTDT-1,-2* (RO), *SYNASC* (RO)
- 2007 • *LaSCoG* (PL), *SYNASC* (RO)
- 2006 • *ISPDC* (RO), *GridTDT* (RO), *LaSCoG* (PL), *SYNASC* (RO)
- 2005 • *VISSAS* (RO), *LaSCoG* (PL), *SYNASC* (RO)
- 2004 • *SGC* (RO), *LaSCoG* (PL), *CaVIS* (RO), *SYNASC* (RO)
- 2003 • *LaSCoG* (PL), *CaVIS* (RO), *SYNASC* (RO)
- 2002 • *SYNASC* (RO)

11.3 Panel organizer

- 2012 • Session 2.3 Interoperability between Clouds /FIA-Aalborg (DK), May 2012
- Interoperability in Cloud Federation / IoS 2012 (BE), Oct 2012

11.4 Member in Conference Program Committees

- 2018 • ICDCIT (IN), FICC (SG), IoT-SIU (IN), IT4RIs (NL), SOSE (DE), CC (UK), IEEE BigDataService (DE), IEEE Mobile Cloud (DE), ICSOFT (PT), EIDWT (AL), i-Society (IR), ICCS (CH), CANA/FedCSIS (PL), HCW (CA), ISPDC (CH), GPC (CN), BIDMA (CA), CEBDA/IPDPS (CA)
- 2017 • MOWU/COMPSAC (IT), FCST (UK), Mobile&HibridClouds track, TAPEMS, EBDMA/CCGrid (SP), ICDCIT (IN), Cloud&ServicesComputing/AINA (TW), ISPDC (AT), IEEE Mobile Cloud (US), SOSE (US), SAI (UK), ICSOFT (SP), PICom (US), PPAM (PL), DewCom/MIPRO (HR), GPC (IT), QUDOS (IT), CIT (FI), BCI (MK), IoTM (CZ), ICSTCC (RO), IDC (RS), FAB (AU), CANA/FedCSIS (CZ), CloudNG/EuroSys (RS), BIDMA (CA), HCW (US), ICCS (CH), ICCS (UK), ICA3PP (FI), CloudTech (MA), EDOC (CA), IDAACS (RO), ScalCom (US), HPCS (IT), FTC (CA), iThings (UK), GreenCom (UK), GECON (FR), CSCS21 (RO), WCI (IN), CCNCP (US), Automatics&Informatics (BG), CPSCom (UK), EduPar&HeteroPar& LSDVE /EuroPar (SP), CloudNG/EuroSys (RS), CBDCom (US), AC (PT), CloudCom - tracks Big Data; Architecture; Distributed cloud (HK), CompSysTech (BG), ARMS-CC/PODC (US), HPCS/3PGCIC (SP), CloudWays (NO), ICT Innovations (MK), ISPA (CN), ICACCA (IN), RoEduNet (RO)
- 2016 • CCGrid (SA), PDCTA (SW), HCW (USA), CPHPCA (SP), SAI (UK), SOSE (UK), ICDCIT (IN), Service Computation (MT), Mobile Cloud (UK), CompArch/ WICSA (IT), BIS (DE), CloudTech (MA), GPC (CN), Performance/FiCloud (AT), CloudScape (BE), COMPSAC (US), ICCGI (SP), INTELLI (SP), ICGREEN (GR), HPCS (AT), BIDMA (CA), NAA (BG), 3PGCIC (KO), FAB (US), ScalCom (FR), HPCEE/VECPAR (PT), i-Society (IE), ISPDC (CN), IDC (FR), HeteoPar & LSDVE & Euro-EduPar/EuroPar (FR), ICCS (US), EDOC (AT), FTC (US), Sci.Eng.Comp. track/ICSE (FR), GECON (GR), FiCloud (AT), CIST (MA), AC (DE), CN4IoT/Eurosys (IT), LISS (AU), QUDOS/ICPE (DE), PiCom(NZ), CoopIS (GR), TAPEMS/ICA3PP (SP), CF (SP), CloudCom (LU), CloudCom-Asia (CN), CANA/FedCSIS (PL), RE-HPC (CN), CloudWays (AT), WCI (IN), DewCom (CA), COT (BR), MESOCA (US), IT4RIs/RTSS (PT), IEEE IPCCC-CCNSPS 2016 (US), YSC (RU)
- 2015 • ModelsWard (FR), ICDCIT (IN), CLOSER (PT), ICEIS (SP), ENASE (SP), Service Comp. (FR), SAI (UK), Mobile-Cloud (US), NetSoft (UK), INTELLI (MT), ICCGI (MT), BIS (PL), SOSE (US), GPC (FJ), BCI (RO), HCW (IN), CSCS20 (RO), CloudTech (MA), C4BIE/CCGrid (CN), CANA (PL), WCI (IN), MASCOTS (US), COMPSAC (TW), FiCloud (IT), IDC (PT), ICGREEN (IT), PPAM (PL), ISPDC (CY), CloudScape VII (BE), ABDIS (FR), Ro-LCG (RO), 3PGCIC (PL), IDAACS (PL), ICA3PP (CN), GLOBECOM (US), Cloudnet (CA), HPCS (NL), CMS (SE), ICA CON (HU), FAB (FR), IoTaaS (IT), AIMC (FR), Euro-EduPar (AT), MESOCA (DE), LISS (SP), QUDOS/FSE (IT), FCST (CN), DependSys (CN), CompSysTech (IR), LSDVE, DIHC, HeteroPar/Euro-Par (AT), AC (IR), CloudCom (CA), ScoDis-LasCoG/ICTInnovation (MK), CN4IoT, SeaWave&CloudWay/ESSOC (IT), SOCA (IT), CLASS (SLO), EnCASE (IT), CF (IT), CIT (UK), PiCom (UK), IoTaaS (IT), E-MuCoCos (PT)
- 2014 • ICDCIT (IN), CLOSER (SP), HCW (US), ENASE (ES), ModelsWard (PT), IEEE MobileCloud (UK), C4BIO & C4BIE/CCGrid (US), SOSE (UK), IDC (SP), MobiWIS (SP), SERVICE (IT), INTELLI (IT), ISPA (IT), CCIT (KO), CIST (MO), BIS (CY), ABDIS (MK), KSEM (RO), SAI (UK), LISS (US), INCoS (IT), IEEE Cloudnet (LU), CCA (IN), CMS/DEXA (DE), ICA3PP (CN), MobiWIS (SP), HPCS (IT), Cluster (SP), EnCASE (DE), FedICI & DIHC & LSDVE & TASUS & HeteroPar/Euro-Par (PO), CloudCom (SG), ISPDC (FR), AC (PO), MESOCA (CA), IoTaaS (IT), PICom (CN), RoEduNet/RENAM (MOL), BigdataFromSpace (IT), CIST (MA), CompSysTech (BG), SeaClouds/ESSOC (UK), MDHPCL/MODELS (SP), NordiCloud (SE), BiDS (IT), WCI (IN), CloudMDE (SP)
- 2013 • MobileCloud (US), CCGrid (NL), SOSE (US), CLOSER (DE), HCW (IR), ICEIS (FR), ENASE (FR), GPC (KO), RoEduNet (RO), IDC (CZ), ABDIS (IT), ICCGI (FR), PPAM (PL), CSCS19 (RO), PaCT (RU), CyPhySyA (DE), BCI (GR), SAI (UK), INTELLI (IT), IDAACS (DE), Applied Computing (US), MESOCA (NL), Service Computation (SP), ICCP (FR), ADMNET (JP), CGC (DE), HPCS (FI), ISPA (AU), BigData (US), CMS/DEXA (CZ), ISPDC (RO), 3PGCIC (FR), HeteroPar,FedICI&DIHC/EuroPar (DE), LISS (CN), NordiCloud (FI), CompSysTech (BG), CLOUSO (SP), RoEduNet (RO), DISCCO (PT), CSE (AU), CIT (AU), AIIT (RS), ICA3PP (IT), CloudCom-Asia (CN)
- 2012 • AINA (JP), BCI (SB), ICCGI (IT), HCW (CN), ENASE (POL), ICEIS (PT), ABDIS (PL), BalticDB&IS (LT), CLOSER (PT), CISIS (IT), EWDC (RO), INTELLI (FR), IDC (IT), ISPDC (DE), ePaMuS (IT), CloudCP (SW), GPC (CN), HAC (SP), CMS (IT), SWISM (IT), CIST (MA), BIC-TA (MAL), MESOCA (IT), ICCGI (IT), 3PGCIC (CA), ICA3PP (JP), LISS (CN), HPCS (SP), MILES (RO), Doct.Symposium & NordiCloud/ECSA (FI), SeDiS (RO), CompSysTech (BG), CSE (CY), RO-LCG (RO), APPL-COMP (SP), HeteroPar/Euro-Par (GR), IoTCloud/CloudCom (CN), HiperGrid (RO), A4C (IT), IDCS (CN)
- 2011 • AINA (SG), ICAART (IT), ICDCIT (IN), ICEIS (CN), CICIS (KO), HCW (US), GPC (FI), LISS (CH), IDC (NL), IDAACS (CZ), ICCGI (LU), CIT (CY), ISPDC (RO), PPAM (PL), 3PGCIC (SP), PaCT (RU), NBIS (AL), HPAGC (IN), WICT (IN), EVACCS (CN), HPGC (KO), ICA3PP (AUS), ServiceWave/Cloud (PL), CANA (PL), SCOPIN (AL), CompSysTech (A), RoEduNet (RO), MedDecSup (RO), HeteroPar/Euro-Par (FR), SOCASE (PL), TARDIS (AU), CODS (DE), SocPros (IN), IOCIT (MAL), Cloud4SOA workshop/CloudCom (GR)
- 2010 • GPC (TW), ADiS (PL), ICAART (SP), HCW (US), ICCGI (SP), SWISM (PL), IDC (MOR), ICEIS (PT), ICA3PP (KO), HPCS (FR), FC (TW), ICAAdET (RO), CODS (CN), 3PGCIC (JP), PARCA (RU), ISPDC (TR), ICC (RO), SOCASE (CAN), CANA (POL), CIT (UK), Doct.Symp./ECSA (DK), eGov Summit (BG), EDGeS (NL), Cluster (GR), ICCP (RO), MiDiS (JP), HeteroPar/Euro-Par (IT), AG (US), INCoS (GR), SOCMAS (US), SEE (US)
- 2009 • ICAART (PO), HCW (IT), GPC (SW), ICCGI (FR), CODS (DE), ICEIS (IT), ICETE (IT), PPAM (POL), ISPDC (POR), IDAACS (IT), HeteroPar/Euro-Par (NL), PaCT (RUS), EMES (RO), HiperGrid (RO), CSCS17 (RO), HSSS (GR), BCI (GR), HPCS (DE), GADA (PO), KEPT (RO), ICE-B (IT), SACI (RO), CSE (CA), DAIT (UK), ICCP (RO), AG (USA)
- 2008 • ANSS (CAN), ICC (RO), CIC (USA), SIWN (UK), ICEIS (SP), CSE (BR), IDC (IT), HeteroPar/Cluster (JAP), ISPDC (POL), HPCS (CYP), GADA (MEX), CANA (POL), CODS (UK), CONTI (RO), ICDCIT (IN), ICCP (RO),

- 2007 • KGCM (USA), NCUS (CN), HyperGrid (RO), ICVL (RO), NCUS (CN)
- 2007 • ANSS (USA), ICEIS_■ (SP), ICCGI (FR), PPAM_■ (POL), PaCT (RU), SMO (EG), ICTIS (MO), HPCS_■ (CZ), IDAACS (DE), HeteroPar/Cluster_■ (USA), GADA_■ (SP), SACCs (RO), IDC (RO), CIC_■ (USA), SCG (CAN), CANA (POL), EUC (TW), ICPADS_■ (TW)
- 2006 • ICPADS_■ (USA), ICCG (RO), ICEIS_■ (CY), ICCGI (RO), HETEROPAR/Cluster_■ (SP), CIC_■ (USA), ADVIS (TK), HPCS_■ (DE), WSGA (USA), ICCP (RO), ISPDC_■ (RO), ICVL (RO), NCUS (KO), HiPC-06 (IND), KICSS (THAI), CONTI (RO), CCCT (USA), LASCOG (POL), FIMCSIT (POL)
- 2005 • IADIS (SPA), ICTIS (MOR), WAGSSDA (NOR), CCCT (USA), CIC_■ (USA), ISPDC_■ (F), ESM (LAT), ABC (USA), PPAM_■ (POL), LASCOG (POL), SYNASC_■ (RO), PARNUM (SLO), ICCOMP (GR), HPC&S (LAT), NCUS (JAP), SOFA_■ (HU), CNIV (RO)
- 2004 • ADVIS (TUR), ISPDC_■ (IRL), SCI (USA), CCCT (USA), CONTI (RO), ICCG (RO), SYNASC_■ (RO), CNIV (RO)
- 2003 • ISPDC_■ (SLO), SCI (USA), PPAM_■ (POL), SYNASC_■ (RO), CNIV (RO)
- 2002 • SYNASC_■ (RO)
- 2001 • SYNASC_■ (RO)

12 Research grants and attracted R&D funds for local teams

12.1 International research grants

12.1.1 Project coordinator

- 2012 1. FP7-RegPOT [HOST](#): High Performance Computing Service Center, 2012-2014, 2 226 272 Euros/UVT
- 2010 2. FP7-ICT [SPRERS](#): Strengthening the Participation of Romania at European R&D in Software Services, 2010-2011, 414415 Euros/UVT

12.1.2 Scientific coordinator

- 2010 3. FP7 [mOSAIC](#): Open-source API and Platform for multiple Clouds, 2010-2013, 374 550 Euros/IeAT

12.1.3 Coordinator of bilateral projects

- 2009 4. SciCom: Scientific Computing Platform. Collaboration Romania-Austria, 2009-2010, 22 000 Lei/UVT
- 2008 5. AEMTIA: Automated Exploration of Mathematical Theories for Industrial Applications, Institute e-Austria Timișoara & RISC Linz, 2008-2011, 156 000 Euros/IeAT
- 2006 6. COBURDIS: Collaboration Romania-Ukraine in Distributed Computing, 2006-2007, 11 000 Lei/UVT
- 2002 7. Automated verification of software and hardware components, IeAT & RISC Linz, 2002-2005, 413 350 Euros/IeAT
- 1996 8. Entwicklung paralleler Algorithmen für die Lösung steifer Differentialgleichungen, June 1996, University Ruprecht-Karls Heidelberg,

12.1.4 Local team coordinator in collaborative projects

- 2017 9. InnoReg-Danube [InnoHPC](#), 2017-2019, 131 000 Euros/UVT
- 2015 10. H2020-EINFRA [VI-SEEM](#), 2015-2018, 148 750 Euros/UVT
- 11. H2020-EINFRA [SESAME NET](#), 2015-2017, 114 062 Euros/UVT
- 12. H2020-ICT [CloudLightning](#), 2015-2018, 283 750 Euros/IeAT
- 13. H2020-ICT [DICE](#), 2015-2018, 295 375 Euros/IeAT
- 2014 14. CIP [Share-PSI 2.0](#), 2014-2016, 20 000 Euros/UVT
- 15. COST [NESUS](#), 2014-2017, 15 000 Euros/UVT
- 2013 16. FP7 [SPECS](#), 2013-2016, 220 800 Euros/IeAT
- 17. FP7 [SCAPE](#), 2013-2014, 90 880 Euros/UVT
- 2012 18. FP7 [MODAClouds](#), 2012-2015, 355 136 Euros/IeAT
- 19. CIP [SEED](#), 2012-2014, 115 722 Euros/IeAT
- 2010 20. FP7 [HP-SEE](#), 2010-2013, 27 700 Euros/UVT
- 2009 21. COST [ComplexHPC](#), 2009-2013, 15 000 Euros/UVT
- 2008 22. FP7 [DEHEMS](#) 2008-2011, 156 492 Euros/IeAT
- 23. FP7 [SEE-GRID-SCI](#), 2008-2010, 24 346 Euros/UVT
- 2006 24. FP6 [SCIENCE](#), 2006-2011, 208 560 Euros/IeAT

12.1.5 Member

- 2010 25. FP7 [EGI-Inspire](#), 2010-2014
- 2008 26. FP7 [EGEE-3](#), 2008-2010
- 2007 27. FP6 [SEE-GRID-2](#), 2007-2008
- 28. FP6 [EGEE-2](#), 2007-2008
- 2005 29. FP6 [VISP](#), 2005-2009
- 30. FP6-ERG5 [SystemaThEx](#), 2005-2007

12.2 International funds, national execution

12.2.1 Project coordinator

- 2009 31. [InfraGrid](#): Service-oriented Grid Infrastructure, EC Structural Funds, 2009-2011, 1 911 601 Lei/UVT
- 2008

32. ESA **GISHEO**: On-demand Grid services for training and high education in Earth Observation, 2008-2010, European Space Agency – PECS Programme, 166 500 Euros/UVT
- 2000 33. Distributed environments for solving scientific problems, 2000-2001, International Bank for Reconstruction and Development & CNCISIS, 10 000 USD/UVT.

12.2.2 Member

- 2010 34. ICAM: Advanced research institute in environmental problems, EC Structural Funds, 2010 - 2013

12.3 National research grants

12.3.1 Project coordinator

- 2012 35. **AMICAS**: Automated Management in Cloud, 2012-2016, 1 348 000 Lei/UVT
- 2006 36. **GRAI**: Grid computing and Artificial Intelligence, 2006-2008, 472 500 Lei/UVT
- 2005 37. **ProWest**: Promotion of the research activities in computer science in West Romania, 2005-2007, 180 000 Lei/IeAT&UVT&UPT
38. P-systems: Models and implementations for simulating P systems, 2005-2006, 3 000 Lei/IeAT
- 2004 39. CompGrid: high performance computing on wide area networks, 2004-2006, 575 000 000 Lei/UVT
- 2002 40. High performance computing technologies based on grid and cluster architectures, 2002-2003, 70 000 000 Lei/UVT
- 1998 41. Parallel and distributed processing in graphics, image processing and computational geometry, 1998-1999, 22 000 000 Lei/UVT

12.3.2 Project coordinator in co-funding FP7 projects/'price' contracts for H2020 projects

42. CloudLightning+, 2016-2018, 96 005 Lei/IeAT
43. DICE+, 2016-2018, 99 939 Lei/IeAT
44. MODAClouds-RO, 2013-2015, 494 280 Lei/IeAT
45. mOSAIC-RO, 2011-2013, 471 000 Lei/IeAT
46. DEHEMS-RO, 2009-2010, 214 223 Lei/IeAT

12.3.3 Local team coordinator in collaborative projects

- 2005 47. **MedioGrid**: Parallel and distributed image processing on grid architecture of geographical and environment data, 2005-2008, 124 195 Lei/UVT
48. **GridMOSI**: Virtual organization based on Grid technology for high performance modelling, simulation, and optimization, 2005-2008, 190 000 Lei/UVT
49. **NanoSim**: Transport phenomena and structure formation at the micro/nanometer scale in biomedicine and materials science, 2005-2008, 118 000 Lei/IeAT
50. ForMol: Computational formalism inspired by Molecular Biology, 2005-2008, 180 000 Lei/IeAT

12.3.4 Member

- 2008 51. ASISTSYS: Integrated System of Assistance for Patients with Severe Neuromotor Affections, 2008-2011
52. SCIPA: Semantic software services for collaboration and inter-operability for adaptive business processes, 2008-2011
- 2007 53. SIPADOC: Integrated system for the digitization and capitalization of the document's cultural patrimony, 2007-2010
54. PEGAF: Grid-based experimental platform for developing applications based on workflows and with dynamic allocation of resources, 2007-2010
- 2006 55. SIAPOM: Integrated System for Analysis and Multidisciplinary Design Optimisation, 2006-2008
- 2005 56. SINRED: National management system for digital resources in science and technologies based on Grid architectures, Oct 2005- Sept 2008
57. MindSoft: Multi-agent models and soft computing in knowledge engineering, 2005-2007
- 2001 58. Distributed models for solving complex problems, 2001-2002.
- 2000 59. Center for advanced technologies in computer science, 2000-2001.
- 1998 60. Intelligent interfaces for nonlinear problems, 1998-2000.
- 1997 61. Pilot center for teaching informatics, 1997-2002
62. Computational geometry in movement planning, 1997.
63. Computer program for the strength to the seismic loads, 1997.
- 1996 64. Biographic methods for the study of nonlinear and unelastic behaviour of steel structures under seismic actions, 1996
- 1995 65. Intelligent environments for scientific computing, 1995-2002
66. Computing methods for seismic actions on steel structures, 1995.
- 1993 67. Coupling symbolic and numeric calculus, 1993-1994.

13 Activity impact

13.1 Selected citations after 01.01.2000

Year	Paper identifier	Cited paper	Paper identifier	Cited paper	Paper identifier	Cited paper
2017						
(199)	ICIS	(33)	10.3390/rs9121301	(12)		
	10.1186/s13677-017-0098-8	(110)	10.1109/SC2.2017.16	(86)	10.1007/978-3-319-70305-3_8	(86)

10.1007/s10723-017-9422-2	(103)	10.1109/EDCC.2017.21	(45)	arXiv:1711.09123	(10,6)
10.1016/j.jnca.2017.11.006	(86)	10.1109/SC2.2017.16	(86)	10.1007/s10723-017-9421-3	(8)
j.swevo.2017.11.002	(160)	10.1016/J.ENG.2017.05.015	(100)	10.1145/3092698	(33,44,86,100,113,122,126,177)
10.1007/s10723-017-9418-y	(8)	10.1016/j.datak.2017.11.001	(44)	CloudWays-3	(122)
10.1109/COMST.2017.2771153	(44)	10.1007/s10723-017-9417-z	(8)	10.1007/978-3-319-70625-2-3	(275)
10.1007/978-3-319-69904-2.10	(275)	RG1	(1)	10.1016/j.cose.2017.09.012	(115)
10.12720/jait.8.2.100-106	(94)	10.1109/ISNCC.2017.8071986	(100)	Telematika	(177)
10.1007/978-3-319-68066-8.1	(93)	10.1007/s10586-017-1248-y	(1,103)	ACMCS	(95)
10.1007/978-981-10-6620-7.64	(1)	JCER	(6,7)	10.1109/EUROCON.2017.8011209	(86)
CloudWays	(1)	ISD	(10,6)	10.1016/j.future.2017.09.003	(33,86,100)
10.14257/ijvip.2017.10.2.01	(12)	10.1504/IJES.2017.086724	(122)	10.1109/DEXA.2017.47	(86)
EuroPar-W	(40)	10.1177/1478077117731174	(177)	10.1109/SARNOF.2017.8080393	(8,86)
10.1109/CLOUD.2017.89	(1)	10.1109/IEEE.EDGE.2017.20	(170)	10.1109/JSTARS.2017.2737958	(12)
SUPE	(166)	LNCS	(101)	10.1109/COMPSAC.2017.247	(101)
10.4018/978-1-5225-1703-0	(284)	10.1093/bib/bbx102	(284)	10.26483/ijarcs.v8i7.4540	(1,100,10,6)
RSC	(122)	10.4018/IJCAC.2017100104	(43)	10.1109/ACCESS.2017.2744677	(94,103,115,170)
10.1007/s11227-017-2123-6	(86)	FOCLASA	(121)	10.1109/ACCESS.2017.2738658	(33,122)
10.1109/ICMCS.2016.7905649	(100)	10.5220/0006370906640671	(122)	10.1016/j.jss.2017.08.016	(100,122,121)
10.13328/j.cnki.jos.005169	(276)	NPDNTU	(21)	10.5539/cis.v10n3p29	(100,177)
10.5220/0006302801470158	(122)	10.1007/978-3-319-56932-1.20	(133)	10.1109/TCYB.2017.2728725	(215)
10.5220/0006239803510357	(44)	10.5220/0006296901320142	(44,122)	10.1109/CONFLUENCE.2017.7943166	(122)
HOAB	(115)	10.1109/SCC.2017.52	(10,6)	arXiv:1707.07452	(1)
10.1007/978-3-319-63315-2.18	(284)	10.13140/RG.2.2.20610.38088	(122)	IJC	(166)
10.1109/CSCS.2017.25	(103)	10.4108/eai.25-10-2016.2266363	(122)	10.1109/ICDCSW.2017.72	(117)
10.1515/cait-2017-0018	(103)	10.1109/EuCNC.2017.7980667	(122)	10.1016/j.jnca.2017.07.010	(86)
10.1016/j.future.2017.06.015	(8)	10.1007/978-3-658-18773-6	(33)	ISPDCl7	(10)
10.1109/IC2E.2017.48	(115)	10.4203/ccp.111.30	(28,22)	ANSS	(33,126)
10.1134/S1064562417020090	(40)	10.1109/ICSAW.2017.65	(122)	10.1109/CompComm.2016.7925193	(8,86,122,101)
10.1007/s00500-017-2632-5	(160)	SBRC2017	(10)	10.3390/ijg6070192	(272)
10.1109/eStream.2017.7950315	(100)	10.1109/TMSCS.2017.2675888	(1)	10.1145/3036331.3050422	(86)
10.1109/ICCCBDA.2017.7951959	(43)	10.1155/2017/2824782	(44)	10.1016/j.future.2017.05.046	(112)
10.1016/j.optlaseng.2017.06.002	(12)	10.5220/0006372302870297	(100)	10.1109/CONFLUENCE.2017.7943161	(275)
10.1007/s10796-017-9772-0	(103)	10.1109/SOSE.2017.23	(177)	10.1109/CCGRID.2017.21	(152)
10.1002/cpe.4182	(103)	10.1109/TSC.2017.2711009	(10)	IRJAES	(299)
10.1007/978-3-319-52181-7.8	(1,33)	10.1080/17538947.2017.1332112	(47)	IJESC	(43)
10.1109/WAINA.2017.137	(288)	10.1007/s10786-017-0511-4	(106)	10.1007/s10586-017-0897-1	(8,177)
10.1109/TBDATA.2017.2703830	(122)	DidInfo&DidactIG	(48,49)	10.1016/j.future.2017.04.040	(33)
CLOUD	(86)	10.1145/3054177	(8,122)	10.1109/IC2E.2017.30	(86)
10.1007/978-3-319-51310-2.6	(122)	10.5220/0006230700570070	(33,126)	10.1109/BigDataService.2017.42	(152)
ZEUS17	(86)	10.1504/IJBPM.2017.083792	(121)	10.1109/PDP.2017.94	(100,102,122)
10.1007/978-3-319-52593-8.4	(122)	10.1109/CCGRID.2017.12	(152)	10.5220/0006371002750286	(122,86)
10.1145/3068126.306812	(169)	10.1016/j.jcsr.2017.03.022	(6)	10.1016/j.jcsr.2017.04.004	(4)
10.1007/978-3-319-54325-3.9	(171)	JDMDH	(100)	10.1002/cpe.4087	(295)
10.1186/s13677-017-0078-z	(101)	10.22364/bjmc.2017.5.1.08	(122)	JATIT	(100)
10.1007/s10723-017-9395-1	(8)	Maskana	(177)	WITS16	(155)
10.1016/j.jpdc.2017.02.011	(5)	10.4018/978-1-5225-0602-7.ch008	(284)	10.12694/scpe.v18i1.1235	(38)
10.22161/ijaers.4.1.28	(1)	10.1007/s00500-017-2523-9	(295)	10.1016/j.jcsr.2017.02.020	(6)
10.1007/s11036-017-0808-y	(92)	10.1007/s11277-017-4035-4	(177)	10.12989/scs.2017.23.1.053	(6)
10.20381/ruor-632	(177,86)	10.1002/asjc.1375	(12)	10.1016/j.jnca.2017.01.016	(10,6)
10.1145/2893474	(136)	10.1007/s10586-017-0728-4	(9)	10.1016/j.future.2016.09.010	(44)
10.1016/j.amc.2016.08.019	(140)	10.1016/j.jss.2017.01.001	(33)	10.1016/j.compeleceng.2016.12.030	(115,170)
10.1016/j.jnca.2016.10.008	(8)	10.1007/978-3-319-46031-4.9	(8)	10.1007/978-3-319-46031-4.3	(8)
2016					
(270) IJIE	(121)	CAI	(1,122)	10.1088/1757-899X/225/1/012184	(1)
10.1109/ICITST.2016.7856745	(86)	10.1109/ICITST.2016.7856739	(1)	10.1088/1757-899X/225/1/012085	(297)
JACE	(6,7)	CJSI	(12)	10.4018/978-1-5225-0886-1	(281,284)
10.1145/2735382	(143)	10.1109/CISIS.2016.97	(115)	10.1145/3026724.3026734	(155)
10.1109/CIS.2016.128	(215)	10.1109/CloudCom.2016.0031	(10)	10.1109/CloudCom.2016.0073	(122)
10.1109/LCN.2016.55	(125)	10.1109/CIST.2016.7805092	(155)	10.1109/ICPADS.2016.0090	(8)
10.1007/978-981-10-3611-8.23	(17)	IJATIR	(101)	US Patent 9514018	(259)
978-1-4673-9005-7.16	(152)	10.4018/978-1-5225-0153-4.ch009	(103)	10.4018/978-1-5225-0123-4.ch001	(122,100,44)
10.1109/CSCWD.2016.7566070	(122)	10.1145/3009925.3009930	(100)	10.1007/978-3-319-23742-8.9	(125)
10.1007/978-3-319-50463-6.3	(177)	10.5151/despro-sigradi2016-448	(177)	10.4018/IJARAS.2016010102	(103)
10.1145/3008167.3008173	(1)	10.1109/TSC.2016.2634024	(8,122)	10.1016/j.jss.2016.12.009	(86)
IJITRA	(115)	IJIEEE	(101)	10.1186/s40411-016-0033-6	(1,8,86,100,122)
10.1109/CloudNet.2016.41	(122)	10.1109/ISSRE.2016.42	(177)	10.1109/ICAC.2016.13	(8,177)
10.1016/j.jss.2016.01.001	(122)	10.1016/j.future.2016.11.025	(33)	10.1016/j.jnca.2016.12.009	(9,44,102)
10.1109/SRDS.2016.20	(177)	10.1007/978-981-10-2035-3.7	(115)	10.1504/IJGUC.2016.080184	(103)
10.1109/JSTARS.2016.2614842	(12)	IJCSE	(103)	10.1109/CEC.2016.7744309	(160)
RECS	(42)	10.1109/ICCICCT.2015.7475380	(103)	10.1016/j.future.2016.11.003	(166)
10.1109/ICIS.2016.7550739	(170)	10.1109/IIAI-AAI.2016.250	(43)	10.1016/j.asr.2015.10.038	(47)
STCC	(8)	10.1007/s10766-015-0358-5	(106)	10.12694/scpe.v17i4.1203	(152)
IJCS	(101)	GdR RSD	(86)	10.1109/MWC.2016.7721750	(8)
10.1007/s11761-015-0174-1	(44)	10.1109/TEVC.2015.2433672	(295)	10.1007/s10462-015-9452-8	(295)
10.1007/978-3-319-48024-4.8	(43)	10.1007/s00450-016-0332-5	(122)	10.1080/23302674.2016.1242819	(1)
10.15439/2016F463	(100)	10.1109/ICISCE.2016.108	(102,123)	10.3969/j.issn.1001-3695.2016.10.067	(12)
IJARMATE	(101)	10.1007/978-3-319-47846-3.13	(152)	10.1504/IJBID.2016.079956	(123)
10.1109/DeSE.2015.28	(284)	10.11834/jrs.20166179	(12)	10.1109/EITech.2016.7519629	(170)
10.1007/978-3-319-47221-8.4	(1)	10.1109/CSCWD.2016.7566070	(122)	10.1109/ICAC.2016.19	(33,122)
10.1007/978-3-319-44257-0.11	(8)	10.1016/j.procs.2016.08.279	(86)	10.1016/j.proeng.2016.08.498	(199)
10.1016/j.procs.2016.08.281	(86)	10.1016/j.procs.2016.08.292	(86)	10.1016/j.proeng.2016.08.624	(199)
10.1007/s12652-016-0434-8	(103)	10.1109/WCNC.2016.7564810	(112)	10.1002/eqe.2825	(6,7)
10.1201/9781315372112-9	(170)	GOW16	(42)	10.1016/j.future.2015.07.019	(1)
10.7160/aol.2016.080305	(1)	10.1007/s00500-016-2381-x	(149)	10.1145/0000000.0000000	(10)
10.1109/MESOCA.2016.10	(122)	10.1109/FiCloud.2016.56	(1)	10.1109/Agro-Geoinformatics.7577604	(130)
10.1007/978-3-319-46295-0.12	(122)	IJECES	(126)	IJeLS	(43,124)
10.1109/CICN.2015.179	(1)	10.1109/CICN.2015.243	(295)	10.1002/spe.2457	(122)
10.1016/j.procs.2016.07.335	(115)	10.1007/s11761-016-0199-0	(122)	10.1007/978-3-319-46613-2.5	(122)
10.1007/978-3-319-58943-5.21	(47)	10.1145/2949550.2949468	(86)	10.1109/UIC-ATC-Scal....2015.191	(103)
10.1007/s10951-016-0491-z	(43)	10.1007/s00607-014-0421-x	(1)	IJITR	(101)
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10.1007/978-3-642-45364-9.18	(1)	10.1109/CloudCom.2013.131	(100)	10.1109/ICITST.2013.6750199	(122)
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10.5220/0004370603210330	(1)	10.1201/b15963-223	(6)	10.1109/CLOUDCOM-ASIA.2013.13	(123)
CASCON 2013	(1)	10.1145/2541583.2541585	(1)	IJSER	(103,176)
10.1109/WAINA.2013.149	(102)	10.1109/CLEI.2013.6670667	(1)	10.1109/CloudCom.2013.130	(1,100,122)
10.1007/s00500-013-1178-4	(215)	CACIC 2013	(295)	VEESD 2013	(7)
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10.1109/SOCA.2013.30	(1)	IJ-CLOSER	(100,102)	10.1016/j.future.2013.10.021	(1)
10.1109/ISCIT.2013.6645946	(122)	10.1109/ICCP.2013.6646132	(136)	i-Society	(103)
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10.5220/0004357104160426	(103)	10.1109/CloudCom.2013.38	(100)	10.1007/978-3-642-40316-3.2	(100)
10.1145/2513534.2513542	(122,117)	10.1007/978-3-642-40651-5.6	(1)	10.1145/2513534.2513541	(1,122)
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10.1002/jcc.23235	(160)	arXiv 1308.0824	(177)	CBSE 2013	(102)
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10.1109/SDE.2013.6601435	(295)	10.1109/CCGrid.2013.74	(10)	10.3923/jai.2013.68.74	(1)
10.1007/s10723-013-9269-0	(126)	10.1016/j.jcsr.2013.05.020	(6,7)	10.1016/j.ins.2013.06.011	(160)
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Above displayed citations (after 01.01.2000): 1306

13.2 General indicators

h-index: Google Academic: 24, ResearchGate: 21, Scopus/Mendeley: 18, WoS: 11

i10-index: Google Academic: 60

citations: Google Academic: over 2640, ResearchGate: over 1930, Scopus/Mendeley: over 1280, WoS: over 460

articles in Web of Science (WoS): 98

publons data: 258 confirmed reviews for journal papers from 2012 until now, 3 awards (top 1% in Computer Science & Mathematics, 3rd in Romania)

Publish or Perish data: Papers: 393 Citations: 2636 Years: 25 Cites_Year: 105.44 Cites_Paper: 6.71
 Cites_Author: 1155.60 Papers_Author: 187.34 Authors_Paper: 3.35 g_index: 43 hc_index: 20 hI_index:7.02 hI_norm: 15
 AWCR: 453.26 AW_index: 21.29 AWCRpA: 183.56 e_index: 31.46 hm_index: 14.95 QueryDate: 2017-09-10 ECC: 2636
 Cites_Author_Year: 46.22 hI_annual: 0.6 h_coverage: 59 g_coverage: 71 star_count :12 year_first: 1992 year_last: 2017
 109 papers with 1 author (75:2, 46:3, 55:4, 42:5, 31:6, 38:7, 2:8)

13.3 Romanian indicators

Scientific production:

P: 242.98; A*+A: 62.13; A*+A+B: 105.43; Journals: 111.71 (45.98%); Conferences: 131.26 (54.02%)

Impact:

C: 2,133.49; A*+A+B: 1,698.68

Academic perspective:

D (i-viii): 915.48; No. projects in D: 64

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