



# Dana PETCU

## Curriculum vitae

October 8, 2016

### 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

## 2 Experience

#### Education

MSc in	Computer Science	Faculty of Natural Science	University of Timișoara	1988
Tempus	PhD scholarship	IWR	University of Heidelberg	1992-93
PhD in	Numerical Analysis	Faculty of Mathematics	West University of Timișoara	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 Timisoara	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

### 3 Membership

#### Domain Expert in Romanian Delegations in 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)

#### Expert evaluator

European Commission	FP6-IST, FP7-ICT/Capacities/People, ESF, INTAS, H2020-ICT/INFRA
Foreign countries	Irish, Czech, Bulgarian, Portugese, Italian, Norwegian, Russian research programmes
Romanian	CNCSIS (2001-2004), CEEX (2005-2007), PNII (2008-2015)

#### Professional groups

Cloud Computing Expert Group of the European Commission, from 2011 - present  
OW2, open source community, from 2013 - present

#### Professional associations

IEEE Society Affiliate; IT History Society; INSTICC

#### 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", June 2015; Romanian Academy Award "Gheorghe Cartianu" for the FGCS paper from 2013, December 2015

## 4 Journal papers

### 4.1 Papers in journals with ISI impact factor

#### 4.1.1 Elsevier

- 2013 1. D. Petcu, G. Macariu, S. Panica, C. Craciun, *Portable Cloud Applications - from Theory to Practice*, Future Generation Computer Systems 29, issue 6 (2013), pp. 1417-1430 ISSN: 0167-739X, doi: 10.1016/j.future.2012.01.009 on-line from Jan 2012 (WoS Impact factor - IF: 2.639, citations: 84).
- 2012 2. D. Petcu, S. Panica, M. Frincu, M. Neagul, D. Zaharie, G. Macariu, Dorian Gorgan, T. Stefanut, *Experiences in building a Grid-based platform to serve Earth observation training activities*, Computers Standards & Interfaces 34 (2012), 493-508, 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), Pergamon-Elsevier Science, ISSN 0898-1221, UK, 1179-1189, 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 Volume 81, Issues 22-23 , 2003, ISSN 0045-7949, 2149-2164, doi: 10.1016/S0045-7949(03)00296-7 (IF: 0.634, citations: 4)
- 2001 5. D.Petcu, *Experiments with an ODE Solver on a Multiprocessor System*, Computers & Mathematics with Applications vol. 42, no. 8-9, Oct.-Nov. (2001), Pergamon-Elsevier Science, UK, ISSN 0898-1221, 1189-1199, doi: 10.1016/S0898-1221(01)00232-2 (IF: 0.383)
- 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, Elsevier, ISSN 0143-974X, 161-217, doi: 10.1016/S0143-974X(97)00044-8 (IF: 0.259, citations: 50)
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, Elsevier, ISSN 0143-974X, 219-244, doi: 10.1016/S0143-974X(97)00045-X (IF: 0.259, citations: 27)

#### 4.1.2 Springer

- 2014 8. D. Petcu, *Consuming Resources and Services from Multiple Clouds: From Terminology to Cloudware Support*, Journal of Grid Computing, Springer, Vol. 12, Issue 2, 321-345, 2014, doi: 10.1007/s10723-013-9290-3, ISSN: 1570-7873 (print), ISSN: 1572-9184 (electronic version) (IF: 1.507, citations: 26)
9. V. Stankovski, D. Petcu, *Developing a Model Driven Approach for engineering applications based on mOSAIC*, Journal of Cluster Computing, vol. 17, issue 1, 2014, 101-110, doi: 10.1007/s10586-013-0263-x, Springer, on-line April 2013 (IF: 1.510, citations: 1)
- 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, Springer, 0010-485X (Print), 1436-5057 (Online), doi: 10.1007/s00607-012-0198-8, vol. 94, issue 8-10, 701-730, (preliminary: Technical Report 2012.5, [258]) (IF: 0.807, citations: 13)
- 2005 11. D. Petcu, M. Paprzycki, M. Ganzha, *Clustering Multiple and Cooperative Instances of Computational Intensive Software Tools*, LNCS 3606, ISSN 0302-9743, pp. 452-456, doi: 10.1007/11535294\_40, 2005. (IF: 0.402, citations: 1)
12. C. Bonchiş, G. Ciobanu, C. Izbaşa, D. Petcu, *A Web-Based P Systems Simulator and Its Parallelization*, LNCS 3699, ISSN 0302-9743, pp. 58-69, doi: 10.1007/11560319\_7, 2005. (IF: 0.402, citations: 1)

- 2004 13. D.Petcu, D.Dubu, M.Paprzycki, *Towards a Grid-aware Computer Algebra System*, LNCS 3036, ISSN 0302-9743, doi: 10.1007/978-3-540-24685-5\_73, 490-495, 2004. (IF: 0.515)
14. D.Petcu, D.Dubu, M.Paprzycki, *Grid-based parallel Maple*, LNCS 3241, ISSN 0302-9743, pp. 215-223, doi: 10.1007/978-3-540-30218-6\_33, 2004. (IF: 0.515, citations: 1)
- 2003 15. D.Zaharie, D.Petcu, *Adaptive Pareto Differential Evolution and its Parallelization*, LNCS 3019, ISSN 0302-9743, 2003, pp. 261-268, doi: 10.1007/978-3-540-24669-5\_34, (citations: 54)
- 2002 16. D. Petcu, H. Popa, D. Tepeneu, *A user-level interface for clustering mathematical software kernels*, LNCS 2336, ISSN 0302-9743, doi: 10.1007/3-540-47840-X\_17, 2002, 175-182 (IF: 0.415)
17. D. Petcu, *Solving large systems of differential equations with PAVIS*, LNCS 2328, ISSN 0302-9743, 2002, pp. 437-445, doi: 10.1007/3-540-48086-2\_48, (IF: 0.415)
- 2001 18. D.Petcu, *Numerical Solution of ODEs with Distributed Maple*, LNCS 1988, ISSN 0302-9743, 2001, 666-674, doi: 10.1007/3-540-45262-1\_79 (IF: 0.415, citations: 1)
19. D. Petcu, *Solving initial value problems with parallel Maple processes*, LNCS 2150, ISSN 0302-9743, 2001, pp. 926-934, doi: 10.1007/3-540-44681-8\_129 (IF: 0.415, citations: 1)
- 2000 20. D.Petcu, *PVMapple: A Distributed Approach to Cooperative Work of Maple Processes*, LNCS 1908, ISSN 0302-9743, 2000, 216-224, doi: 10.1007/3-540-45255-9\_31 (IF: 0.39, Citation: 1)
- 1999 21. D.Petcu, *Solving Initial Value Problems with a Multiprocessor Code*, LNCS 1662, ISSN 0302-9743, doi: 10.1007/3-540-48387-X\_47 1999, 452-466. (IF: 0.872)
- 1997 22. D.Petcu, *Implementation of some multiprocessor algorithms for ODEs using PVM*, LNCS 1332, ISSN 0302-9743, 1997, 375-383, doi: 10.1007/3-540-63697-8\_107

#### 4.1.3 Others

- 2015 23. 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, doi: 10.1002/cpe.3175, on-line Nov 2013, Volume 27, Issue 9, 24432469, 2015 (IF: 0.997, Citations: 3)
- 2014 24. A. Agathos, J. Li, D. Petcu, and 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, ISSN: 1939-1404, Vol. 7, issue 6, July 2014, doi: 10.1109/JSTARS.2014.2320896, 2281-2296 (IF: 2.827, Citations: 9)
25. J. Južna, P. Češarek, D. Petcu and V. Stankovski, Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC, Computing in Science and Engineering, ISSN: 1521-9615, Mai/June 2014, Vol. 16, issue 4, page 68-77, doi: 10.1109/MCSE.2013.135 (IF: 1.248, Citations: 1)
- 2010 26. D. Gorgan, V. Bacu, D. Rodila, F. Pop and D. Petcu, *Experiments on ESIP-Environment oriented satellite data processing platform*, Earth Science Informatics Vol 3, no. 4, 2010, doi: 10.1007/s12145-010-0065-0, ISSN 1865-0473 (IF: 0.657, citations: 6)
- 2005 27. D.Petcu, C.Pop, *A new version of Kovarik's approximate orthogonalization algorithm without matrix inversion*, International Journal of Computer Mathematics, vol. 82, no. 10, October 2005, 1235-1246, ISSN 1029-0265 Taylor & Francis Ltd, doi: 10.1080/00207160512331331174, (IF: 0.254, Citations: 3)
28. D.Petcu, M.Paprzycki, 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: 3)
- 1994 29. 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, 373-384
- 1993 30. 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, 188-198 (citations: 2)

## 4.2 Papers in internationally refereed journals

- 2015 31. 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.-Marc 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, Dec 2015, 467-489, doi: 10.12694/scpe.v16i4.1134
32. 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 (citations: 2)
33. 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
34. 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
- 2014 35. 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 (citations: 13)
36. V.I. Munteanu, C. Sandru, 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 (citations: 5)
- 2013 37. 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 (citations: 34)
- 2012 38. D. Petcu, *A Panorama of Cloud Services*, Scalable Computing: Practice and Experience, vol 13, no. 4, 2012, 303-314, link (citations: 1)
39. A. Bessani, R. Kapitza, D. Petcu, P. Romano, S.V. Gogouvitis, D. Kyriazis, R.G. Casella, *A look to the old-world sky: EU-funded dependability cloud computing research*, SIGOPS Oper. Syst. Rev. 46, 2 2012, 43-56, doi: 10.1145/2331576.2331584 (citations: 2)

- 2011 40. 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
- 2010 41. 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: 3)
- 2008 42. M. E. Frîncu and D. Petcu, *OSyRIS: a Nature Inspired Workflow Engine for Service Oriented Environments*, Scalable Computing: Practice and Experience, Volume 11, Number 1, ISSN 1895-1767, 2010, 81-97, link (citations: 3)
43. 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
44. 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
45. 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, link
46. 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)
47. 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 48. 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)
49. D. Petcu, *Grid Services for Satellite Image Processing*, Transactions on Computers, Issue 2, Vol. 6, ISSN 1109-2750, 347-354, 2007 link (citations: 2)
50. 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
- 2006 51. 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)
52. D. Petcu, *A Parallel Rule-based System and Its Experimental Usage in Membrane Computing*, Scalable Computing: Practice and Experience, Volume 7, Number 3, ISSN 1895-1767, 2006, pp. 39-49, link (citations: 1)
53. D. Petcu, C. Bonchiș, C. Izbaşa *Symbolic Computations based on Grid Services*, Int. Journal of Computers, Communications and Control, Vol. 1, no. 1, 2006, 44-50, link
- 2005 54. 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
55. 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 56. St. Maruster, V. Negru, D. Petcu, C. Șandru — *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, extension of the version from POMI Journal, vol.258, 1999, 23-34, eds. N.N. Vasilev & A. M. Vershik, Petersburg.
- 2000 57. D. Petcu, M. Drăgan, *Designing an ODE solving environment*, Lectures Notes in Computational Science and Engineering 10: Advances in Software Tools for Scientific Computing, eds. H.P. Langtangen, A.M. Bruaset, E. Quak, Springer-Verlag, Berlin, 2000, ISSN: 1439-7358, 319-338, doi: 10.1007/978-3-642-57172-5-10 (citations: 6)
58. D. Petcu *The potential for distributing computation in large initial value problems*, Notes on Numerical Fluid Mechanics 73: Large Scale Scientific Computations of Engineering and Environmental Problems, 2000, eds. Michael Griebel, Svetozar Margenov, Plamen Yalamov, ISSN 0179-9614, 180-195.
- 1999 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)

### 4.3 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, pp. 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, Nr. 2, 2012, pp. 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, vol. 16, nr. 4, 2006, pp. 113-120
- 2005 65. D. Petcu, *Software issues in solving initial value problems for ordinary differential equations*, Creative Mathematics, North University of Baia Mare, vol. 13, 2005, 97-110. (citations: 3)
66. 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, pp. 31-36 link
- 2004 67. D. Petcu, *Building a computational grid: design issues*, Analele Științifice ale Universității "Alexandru Ioan Cuza" din Iași, Informatică, Tomul XV, 2004, 139-152.
68. 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, pp. pp. 223-226
69. D. Petcu, D. Dubu, *Mapping general purpose scientific computing environments onto a computational grid*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XLII, 2004, 6th Int. Symposium: "Symbolic and Numeric

- Algorithms on Scientific Computing", SYNASC 04, September 2004, Timișoara, 197-212.
- 2002 70. D.Petcu, C.Popă, *On the Parallel Implementation of Kovarik's Approximate Orthogonalization Algorithm*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XL, 2002, 4th Int. Workshop: "Symbolic and Numeric Algorithms on Scientific Computing", SYNASC 02, October 2002, Timișoara, 197-212, link
71. 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
- 2001 72. D.Petcu, D. Vizman, M. Popescu *Computational Fluid Dynamic on a Cluster*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXIX, 2001, 3rd Int. Workshop: "Symbolic and Numeric Algorithms on Scientific Computing", SYNASC 01, October 2-5, 2001, Timișoara, 171-180.
- 2000 73. D.Petcu, *A prototype system for cooperative CAS tasks*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXVIII, 2000, 2nd Int. Workshop: "Symbolic and Numeric Algorithms on Scientific Computing", SYNASC 00, October 4-6, 2000, Timișoara, 125-140.
- 1999 74. D. Petcu, *Design of an User Interface for Mathematical Software*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXVII, 1999, Symposium "50 years Jubilee of Mathematical Faculty" – section Computer Science and Applications, Timișoara, November 1998, 137-142.
75. D. Petcu, *Parallel Solving Environment for ODEs*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXVII, 1999, 1st Int. Workshop: "Symbolic and Numeric Algorithms on Scientific Computing", SYNASC 99, 10-11 August 1999, Timișoara, 45-57.
- 1995 76. D.Petcu, *Implicit Runge-Kutta Methods on a Distributed Computational System*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXIII, fasc. 2, 1995, 209-220
77. D.Petcu, L.Cucu, *Plotting Conics and Quadrics on a Distributed Computational System*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXIII, fasc. 2, 1995, 221-231
- 1994 78. D.Petcu, *One-step Methods for the Numerical Solution of Stiff Ordinary Differential Systems*, Revue D'Analyse Numérique et de Théorie de L'Approximation, Tome 23, no. 2, 1994, pp. 197-216
79. D.Petcu, *Parallel Algorithms for the Numerical Integration of Stiff ODE Systems*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXII, fasc. 2, 1994, 65-81
- 1993 80. D.Petcu, *Modified Adams-Moulton Schemes for Solving Stiff Differential Equations*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXI, fasc. 1, 1993, pp. 101-112
81. D.Petcu, *Second Derivative Split Multistep Methods for Stiff Ordinary Differential Equations*, Analele Universității din Timișoara, Seria Matematică-Informatică, vol. XXXI, fasc. 2, 1993, pp. 229-254
- 1992 82. D.Petcu, *One-step Discretization of Stiff Differential Equations*, Analele Universității din Timișoara, Seria Științe Matematice, vol. XXX, fasc. 1, 1992, pp. 59-87
83. D.Petcu, *A Family of Multistep Linear Methods for Solving Stiff Ordinary Differential Equations*, Analele Universității din Timișoara, Seria Științe Matematice, vol. XXX, fasc. 2-3, 1992, pp. 257-282
- 1990 84. D.Petcu, *Search Method For One-Dimensional Minimization*, Analele Universității din Timișoara, vol. XXVIII, fasc. 2-3, Seria Științe Matematice, 1990, pp. 165-175
85. D.Petcu, *On the Error Estimate of Newton's Method for a Hölder Continuous F-derivate*, Analele Universității din Timișoara, vol. XXVIII, fasc. 2-3, Seria Științe Matematice, 1990, pp. 149-163
- 1988 86. D.Petcu, *New Methods for Solving Stiff Differential Equation Systems*, Analele Universității din Timișoara, vol. XXVI, fasc. 3, Seria Științe Matematice, 1988, pp. 67-72

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- 2000 291. V.Gioncu, G. Mateescu, D. Petcu, A. Anastasiadis, *Prediction of available ductility by means of local plastic mechanism method: DuctRot computer program*, in *Moment resistant connections of steel frames in seismic areas. Design and Reability*, ed. F.M. Mazzolanni, E &FN Spon, Londra, 2000, 95-146. (citations: 6)

## 7.2 Monographs

- 1998 292. D.Petcu, *Parallelism in solving ordinary differential equations*, Mathematical Monographs 64, Tipografia Universităii, 1998, 232 pages (citations: 14)
- 1996 293. D.Petcu, *Parallel Numerical Algorithms. Part I: Solving systems of linear, nonlinear or differential equations*, Mathematical Monographs 60, Tipografia Universităii din Timișoara, 1996, 148 pages.
294. D.Petcu, *Parallel Numerical Algorithms. Part II: Solving partial differential equations*, Mathematical Monographs 61, Tipografia Universităii din Timișoara, 1996, 134 pages.
- 1995 295. D.Petcu, *Multistep Methods for Stiff Initial Value Problems*, Mathematical Monographs 50, Tipografia Universităii din Timișoara, 1995, 186 pages.
- 1994 296. D.Petcu, *Parallel computing* (in Romanian), Editura de Vest, Timișoara, 1994, ISBN 973-36-0227-2, 160 pages.

## 7.3 Textbooks

- 2006 297. D.Petcu, *Grid architectures and technologies* (in Romanian), Ed. Eubeea, Timișoara, ISBN 973-673-056-7, 2006, 292 pages. (citations: 3)
298. 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 299. D.Petcu, D.Pop, *Modeling three-dimensional world* (in Romanian), Ed. Eubeea, Timișoara, ISBN 973-673-011-5, 2004.
- 2002 300. D.Petcu, V.Negru, *Distributed processing* (in Romanian), Editura Universităii de Vest, Seria Alef, 2002, Timișoara, ISBN 973-85552-8-0 (citations: 3)
- 2001 301. D.Petcu, *Parallel processing* (in Romanian), Editura Eubeea, 2001, Colecția Informatică, Timișoara, ISBN 973-9479-48-0.
- 2000 302. D.Petcu, *Mathematics assisted by computers* (in Romanian), Colecția Informatică, Editura Eubeea, 2000, Timișoara, ISBN 973-9479-13-8.
- 1999 303. D.Petcu, L.Cucu, *Computer Graphics* (in Romanian), Tipografia Universităii Timișoara, 1999..
- 1998

304. O.Dogaru,Gh.Bocșan,I.Despi,A.Ionică,V.Iordan,L.Luca,D.Petcu,P.Popovici, *Informatics for teachers* (in Romanian), Editura de Vest, Timișoara, 1998, ISBN 973-36-0308-2.
- 1997 305. D.Petcu, *Maple, a standard for computer assisted mathematics* (in Romanian), Tipografia Universității Timișoara, 1997.
- 1995 306. O.Dogaru, D.Petcu, Gh.Petrov, *Turbo Pascal. Exercises and problems* (in Romanian), Timișoara, Editura de Vest, 1995, ISBN 973-36-0200-0.
307. D.Petcu, L.Cucu, *Computer graphics principles* (in Romanian), Editura Excelsior, Timișoara, 1995, ISBN 973-9015-51-4.
- 1994 308. D.Petcu, *Parallel algorithms* (in Romanian), Tipografia Universității Timișoara, 1994.

## 8 Special talks

### 8.1 Invited talks

- 2016 • D. Petcu, *Service Quality Assurance for Cloud-based Data-intensive Applications*, SEE Data Science Forum, Belgrad, June 2016, link and abstract
- 2014 • D. Petcu, *Challenges of Multi-Clouds*, AMGCC14 / CAC 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. SACC 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 Aplicată și Informatică, Constanța, 16.01.2002

### 8.2 Invited keynotes

- 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, 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*, EWDCC 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, *DUCROT '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, Aprilie 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

- 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 (CISJfrom 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 & 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

2016	<ul style="list-style-type: none"> <li>• ACM Computing Surveys (CSUR, from 2016)</li> <li>• International Journal of Computer Engineering Research (IJCER, from 2016)</li> <li>• Journal of King Saud University - Computer and Information Sciences (JKSU-CIS, from 2016)</li> <li>• International Journal of High Performance Computing Applications (IJHPCA, from 2016)</li> </ul>
2015	<ul style="list-style-type: none"> <li>• Scientific Programming (SP, from 2015)</li> <li>• Journal of Computer Networks and Communications (JCNC, from 2015)</li> <li>• IEEE Transactions on Services Computing (TSCSI, from 2015)</li> <li>• Central European Journal of Computer Science (CEJCS, from 2015)</li> <li>• The Journal of Systems and Software (JSS, from 2015)</li> <li>• Computers &amp; Mathematics with Applications (CAMWA, from 2015)</li> <li>• Egyptian Informatics Journal, Elsevier (EIJ, from 2015)</li> </ul>
2014	<ul style="list-style-type: none"> <li>• Peer-to-Peer Networking and Applications (PPNA, from 2014)</li> <li>• International Journal of Digital Earth (IJDE, from 2014)</li> <li>• Data &amp; Knowledge Engineering (DATA-K, from 2014)</li> <li>• IEEE Transactions on Computers (TC, from 2014)</li> <li>• Journal of Parallel and Distributed Computing (JPDC, from 2014)</li> <li>• IEEE Systems Journal (ISJ, from 2014)</li> <li>• IEEE Cloud Computing Magazine (CCM, from 2014)</li> <li>• Concurrency and Computation: Practice and Experience (CCPE, from 2014)</li> <li>• Environment Research (ER, from 2014)</li> </ul>
2013	<ul style="list-style-type: none"> <li>• Simulation Modelling Practice and Theory (SIMPAT, from 2013)</li> <li>• Computing (COMP from 2013)</li> <li>• IEEE Transactions on Cloud Computing (TCC from 2013)</li> <li>• World Wide Web: Internet and Web Information Systems (WWW from 2013)</li> <li>• Informatica (Informatica, from Vilnius, 2013)</li> </ul>
2012	<ul style="list-style-type: none"> <li>• Scientific Research and Essays (SRE, from 2012)</li> <li>• IEEE Transactions on Dependable and Secure Computing (TDSC, from 2012)</li> <li>• Computer Science and Information Sciences (ComSIS, from 2012)</li> <li>• IEEE Transactions on Parallel and Distributed Systems (TPDS, from 2012)</li> <li>• Journal of Network and Computer Applications (JNCA, from 2012)</li> <li>• IEEE Computer (Computer, from 2012)</li> </ul>
2011	<ul style="list-style-type: none"> <li>• Journal of Grid Computing, Springer (JGC, from 2011)</li> </ul>
2010	<ul style="list-style-type: none"> <li>• Computer Standards &amp; Interfaces, Elsevier (CSI, from 2010)</li> <li>• Journal of Supercomputing (JoS, from 2010)</li> </ul>
2008	<ul style="list-style-type: none"> <li>• Information Sciences, Elsevier (INS, from 2008)</li> </ul>
2007	<ul style="list-style-type: none"> <li>• Engineering Applications of Computational Fluid Mechanics (JEACFM, from 2007)</li> <li>• International Journal of Grid and Utility Computing (IJGUC, from 2007)</li> <li>• Bulletin of the Belgian Mathematical Society (BBMS, from 2007)</li> <li>• International Journal of Computational Science and Engineering (IJCSE, from 2007)</li> </ul>
2006	<ul style="list-style-type: none"> <li>• Mathematical Reviews (MR, from 2006 until 2012),</li> <li>• International Journal of Computer Mathematics, Taylor &amp; Francis (IJCM, from 2006)</li> </ul>
2005	<ul style="list-style-type: none"> <li>• Computing Reviews (CR, from 2005 until 2013),</li> <li>• Journal of Systemics, Cybernetics and Informatics (JSCI, from 2005),</li> <li>• Parallel Computing, Elsevier (PARCO, from 2005)</li> <li>• Future Generation Computer Systems, Elsevier (FGCS, from 2005),</li> </ul>
1998	<ul style="list-style-type: none"> <li>• Annals of West University of Timișoara, Mathematical-Computer Science Series (AWUTM, from 1998)</li> </ul>
1993	<ul style="list-style-type: none"> <li>• Zentralblat fur Mathematik (ZBL, from 1993)</li> </ul>

### 10.4 Journal editorials

2013	<ul style="list-style-type: none"> <li>• V. Stankovski, D. Petcu: Editors's Introduction to the Special Issue on "Grid, Cloud and Sky Applications for Knowledge-based Industries and Businesses". <i>Informatica (Slovenia)</i> 37(2): 113 (2013), link</li> </ul>
2012	<ul style="list-style-type: none"> <li>• J.L. Vasquez-Poletti, D. Petcu, F. Lelli, <i>Introduction to the Special Issue - Selected papers from the International Workshop on Clouds for Business and Business for Clouds</i>, Scalable Computing: Practice and Experiences, Vol. 13, no. 3, Sept 2012, link</li> <li>• D. Petcu, D. Zaharie, <i>Agent based systems &amp; semantic software services</i>, Scalable Computing: Practice and Experiences, Vol. 13, no. 1, March 2012, link</li> </ul>
2011	<ul style="list-style-type: none"> <li>• D. Petcu, J.L. Vasquez-Poletti, <i>Introduction to the Special Issue - Selected Papers from the 2nd Workshop on Software Services</i>, Scalable Computing: Practice and Experiences, Vol. 12, no. 3 &amp; 4, Sept &amp; Dec 2011, link-1 and link-2</li> <li>• D. Petcu, M. Paprzycki, <i>Introduction to the Special Issue - New Directions in Cloud and Grid Computing</i>, Scalable Computing: Practice and Experiences, Vol. 12, no. 2, June 2011, link</li> <li>• D. Petcu, A. Galis, <i>Introduction to the Special Issue - Selected Papers from the 1st Workshop on Software Services</i>, Scalable Computing: Practice and Experiences, Vol. 12, no. 1, March 2011, link</li> </ul>
2010	<ul style="list-style-type: none"> <li>• D. Petcu, E. Deelman, N. Meyer, M. Paprzycki <i>Introduction to the Special Issue - Grid and Cloud Computing and their Application</i>, Scalable Computing: Practice and Experiences, Vol. 11, no. 2, June 2010, link</li> </ul>
2008	<ul style="list-style-type: none"> <li>• D. Petcu, P. Stpiczynski, <i>Editorial to Special Section on Multi-Agent Systems and Large-Scale Distributed Systems</i>, International Transactions on Systems Science and Applications (ITSSA), Vol. 3, No. 4, 2008, p. 289, ISSN 1751-1461</li> </ul>

- 2007
- D. Petcu, *Practical Aspects of Large-Scale Distributed Computing*, Scalable Computing: Practice and Experience (SCPE), Vol. 8, No. 3, 2007 (electronic version, ISSN 1097-2803, link)
  - D. Petcu, *Challenges concerning symbolic computations on grids*, Scalable Computing: Practice and Experience (SCPE), Vol. 6, No. 3, 2005 (electronic version, ISSN 1895-1767, link)

## 10.5 Proceedings editor

- 2016
- 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 Computer Society, 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 Computer Society, ISBN 978-1-4799-8447-3
- 2013
- N. Bjorner, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. M. Watt, D. Zaharie (Eds.): 2013 15th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), IEEE Computer Society, 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 Computer Society, 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
- 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
- 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.Grigoas, 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
  - 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

- 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: 2)

## 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 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: (citations: 3) 10.1109/MDSO.2008.15
- 2005
- D. Petcu, Parallel Numerical Applications on Grid Environments, IEEE Distributed Systems Online, vol. 6, no. 4, Apr., 2005, link

## 11 Conference organization

### 11.1 Member in steering committees of conference series/Advisory Committee

- 2015 • OBD (from 2015)
- 2006 • ISPDC (from 2006)
- 2003 • SYNASC (from 2003)

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

- 2017 • Mobile & Hybrid Cloud/CCGrid (ES), Int. Conf. on Big Data Innovations and Applications (CZ)
- 2016 • SOSeMC/ICAC (AT), ICA3PP/Track BigData&Appl (SP), CLIoT (AT), MICAS (RO), HPC-ST (RO), WSC (PL)
- 2015 • AIMC/Eurosyst (FR), CLIoT (IT), MICAS (RO), HPC-E5 (RO)
- 2014 • MultiCloud/CLOSER (SP), MICAS (RO), HPCReS (RO), C4Bio (US), SCoDiS-LaSCoG (PL), SoftwareArch/FiCloud(ES)
- 2013 • MoCSop (ES), MICAS (RO), HPCSP (RO), SYNASC (RO)
- 2012 • WoSS-4 (SL), C4BB4C (ES), EIDWT (RO), CeBPM (CY), MICAS (RO), WoHS (RO), SYNASC (RO)
- 2011 • CCPI (FR), WoSS-2 (RO) -3 (PL), IDAACS (CZ), SCoDiS-LaSCoG (PL), SYNASC (RO)
- 2010 • CCPI (IT), WoSS-1 (RO), SCoDiS-LaSCoG (PL), SYNASC (RO)
- 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

- 2017 • CCGGrid - Mobile and Hibrid Clouds (SP), ICDCIT (IN), AINA - Cloud and Services computing (TW), ISPDC - HCW (US), IEEE Mobile Cloud (US), SOSE (US), SAI (UK), ICSOFT (SP), PiCom (US)
- 2016 • CCGGrid (SA), PDCTA (SW), HCW (USA), CPHPCA (SP), SAI (UK), SOSE (UK), ICDCIT (IN), Service Computation (MT), Mobile Cloud (UK), WICSA&CompArch (IT), BIS (DE), CloudTech (MA), GPC (CHI), Performance track/FiCloud (AT), CloudScape (BE), COMPSAC (US), ICCGI (SP), INTELLI (SP), ICGREEN (GR), HPCS (AT), ICA3PP (SP), BIDMA (CA), NAA (BG), 3PGCIC (KO), FAB (US), ScalCom (FR), HPCEE/VERPAR (PT), i-Society (IE), ISPDC (CHI), IDC (FR), HeteoPar & LSDVE & Euro-EDUPAR/EuroPar (FR), ICCS (US), EDOC (AT), FTC (US), Sci.Eng.Comp. track/CSE (FR), GECON (GR), FiCloud (AT), CIST (MA), HeteroPar (FR), AC (DE), CN4IoT (IT), LISS (AU), QUDOS (DE), PiCom(NZ), CoopIS (GR), TAPEMS/ICA3PP (SP), CF (SP), CloudCom (LU), CloudCom-Asia (CHI), CANA (PL), RE-HPC (CHI), CloudWays (AT), WCI (IN), DewCom (CA), COT (BR), MESOCA (US), IT4RIs/RTSS (PT), CloudCom (LU), IEEE IPCCC 2016-CCNSPS 2016 (US), YSC (RU)
- 2015 • MODELSWARD (FR), ICDCIT (IN), CLOSER (PT), ICEIS (SP), ENASE (SP), SAI (UK), Service Computation (FR), SAI (UK), IEEE MobileCloud (US), NetSoft (UK), INTELLI (MT), ICCGI (MT), BIS (PL), SOSE (US), GPC (FJ), BCI (RO), HCW (IN), CSCS20 (RO), CloudTech (MA), C4BIE/CCGrid (CHI), 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), C4BIE (CHI), 3PGCIC (PL), IDAACs (PL), ICA3PP (CN), GLOBEcom (US), Cloudnet (CA), HPCS (NL), CMS (SE), ICA CON (HU), FAB (FR), IoTaaS (IT), CloudScape VII (BE), AIMC (FR), Euro-EDUPAR (AT), MESOCA (DE), LISS (SP), QUDOS/FSE (IT), FCST (CHI), DependSys (CHI), CompSysTech (IR), LSDVE, DIHC, HeteroPar/EuroPar (AT), AC (IR), CloudCom (CA), SCoDiS- LasCoG/ICT Innovation (MK), CN4IoT'15 (IT), 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), CCGGrid & C4BIO & C4BIE (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), ISPA (IT), Cluster (SP), EnCASE (DE), FedICI & DIHC & LSDVE & TASUS & HeteroPar/EuroPar (PO), CloudCom (SG), ISPDC (FR), AC (PO), MESOCA (CA), IoTaaS (IT), PiCom (CHI), 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), CCGGrid (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), ICCP (FR), ISPA (AU), HeteroPar (DE), BigData (US), CMS/DEXA (CZ), ISPDC (RO), 3PGCIC (FR), 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 (CHI)
- 2012 • AINA (JP), BCI (SB), ICCGI (IT), HCW (CHI), ENASE (POL), ICEIS (PT), ABDIS (PL), BalticDB&IS (LT), CLOSER (PT), CISIS (IT), EWDCC (RO), INTELLI (FR), IDC (IT), ISPDC (DE), ePaMuS (IT), CloudCP (SW), GPC (CHI),

- HAC (SP), CMS (IT), SWISM (IT), CIST (MA), BIC-TA (MAL), MESOCA (IT), ICCGI (IT), 3-PGCIC (CA), ICA3PP (JP), LISS (CN), HPCS (SP), MILES (RO), ECSA -Doct.Symposium & NordiCloud (FI), SeDis (RO), CompSysTech (BG), CSE (CY), RO-LCG (RO), APPL-COMP (SP), HeteroPar (GR), IoTCloud/CloudCom (CHI), HiperGrid (RO), A4C (IT), IDCS (CHI)
- 2011 • AINA (SG), ICAART (IT), ICDCIT (IN), ICEIS (CHI), 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 (CHI), HPGC (KO), ICA3PP (AUS), ServiceWave/Cloud (PL), CANA (PL), SCOPIN (AL), CompSysTech (A), RoEduNet (RO), MedDecSup (RO), HeteroPar (FR), WICT (IN), SOCASE (PL), TARDIS (AU), CODS (DE), SocPros (IN), IOCIT (MAL), Cloud4SOA workshop/CloudCom2011 (GR)
- 2010 • GPC (TW), ADiS (PL), ICAART (SP), HCW (US), ICCGI (SP), SWISM (PL), IDC (MOR), ICEIS (POR), ICA3PP (KO), HPCS (FR), FC (TW), ICAdET (RO), CODS (CHI), 3PGCIC (JP), PARCA (RU), ISPDC (TR), ICCC (RO), SOCASE (CAN), CANA (POL), CIT (UK), ECSA -Doct.Symposium (DK), eGov Summit (BG), EDGeS (NL), ICCC-Conti (RO), Cluster(GR), ICCP (RO), MiDiS (JP), HeteroPar (IT), AG (US), INCoS (GR), SOCMAS (US), SEE (USA)
- 2009 • ICAART (PO), HCW (IT), GPC (SW), ICCGI (FR), CODS (DE), ICEIS (IT), ICETE (IT), PPAM (POL), ISPDC (POR), IDAACs (IT), HeteroPar (NL), BCI (BUL), 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), ICCC (RO), CIC (USA), SIWN (UK), ICEIS (SP), CSE (BR), IDC (IT), HeteroPar (JAP), ISPDC (POL), HPCS (CYP), GADA (MEX), CANA (POL), CODS (UK), CONTI (RO), ICDCIT (IN), ICCP (RO), KGCM (USA), NCUS (CHI), HyperGrid (RO), ICVL (RO), NCUS (CN)
- 2007 • ANSS (USA), ICEIS (SP), ICCGI (FR), PPAM (POL), PACT (RU), SMO (EG), ICTIS (MO), HPCS (CZ), HeteroPar (USA), IDAACs (DE), GADA (SP), SACCs (RO), IDC (RO), CIC (USA), SCG (CAN), CANA (POL), EUC (TW), ICPADS (TW)
- 2006 • ICPADS (USA), ICCC (RO), ICEIS (CY), ICCGI (RO), HETEROPAR (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), ICCC (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

### 12.1 International research grants

#### 12.1.1 Project coordinator

- 2012 1. FP7-RegPOT HOST: High Performance Computing Service Center, 2012-2014,  
 2010 2. FP7-ICT SPRERS: Strengthening the Participation of Romania at European R&D in Software Services, 2010-2011

#### 12.1.2 Scientific coordinator

- 2010 3. FP7 mOSAIC: Open-source API and Platform for multiple Clouds, 2010-2013

#### 12.1.3 Coordinator of bilateral projects

- 2009 4. SciCom: Scientific Computing Platform. Collaboration Romania-Austria, 2009-2010  
 2008 5. AEMTIA: Automated Exploration of Mathematical Theories for Industrial Applications, Institute e-Austria Timișoara & RISC Linz, 2008-2011  
 2006 6. COBURDIS: Collaboration Romania-Ukraine in Distributed Computing, 2006-2007  
 2002 7. Automated verification of software and hardware components, IeAT & RISC Linz, 2002-2005  
 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

- 2015 9. H2020-EINFRA VI-SEEM, 2015-2018  
 10. H2020-EINFRA SESAME NET, 2015-2017  
 11. H2020-ICT CloudLightning, 2015-2018,  
 12. H2020-ICT DICE, 2015-2018,  
 2014 13. CIP Share-PSI 2.0, 2014-2016,  
 14. COST NESUS, 2014-2017,  
 2013 15. FP7 SPECS, 2013-2016,  
 16. FP7 SCAPE, 2013-2014,  
 2012 17. FP7 MODAClouds, 2012-2015,  
 18. CIP SEED, 2012-2014,  
 2010 19. FP7 HP-SEE, 2010-2013,  
 2009 20. COST ComplexHPC, 2009-2013  
 2008

- 21. FP7 DEHEMS 2008-2011,
- 22. FP7 SEE-GRID-SCI, 2008-2010
- 2006 23. FP6 SCIEnce, 2006-2011

### **12.1.5 Member**

- 2010 24. FP7 EGI-Inspire, 2010-2014
- 2008 25. FP7 EGEE-3, 2008-2010
- 2007 26. FP6 SEE-GRID-2, 2007-2008
- 27. FP6 EGEE-2, 2007-2008
- 2005 28. FP6 VISP, 2005-2009
- 29. FP6-ERG5 SysteMaThEx, 2005-2007

## **12.2 International funds, national execution**

### **12.2.1 Project coordinator**

- 2009 30. InfraGrid: Service-oriented Grid Infrastructure, EC Structural Funds, 2009-2011
- 2008 31. ESA GISHEO: On-demand Grid services for training and high education in Earth Observation, 2008-2010, European Space Agency – PECS Programme

### **12.2.2 Member**

- 2010 32. ICAM: Advanced research institute in environmental problems, EC Structural Funds, 2010 - 2013

## **12.3 National research grants**

### **12.3.1 Project coordinator**

- 2012 33. AMICAS: Automated Management in Cloud, 2012-2016
- 2006 34. GRAI: Grid computing and Artificial Intelligence, 2006-2008
- 2005 35. ProWest: Promotion of the research activities in computer science in West Romania, 2005-2007
- 36. P-systems: Models and implementations for simulating P systems, 2005-2006
- 2004 37. CompGrid: high performance computing on wide area networks, 2004-2006
- 2002 38. High performance computing technologies based on grid and cluster architectures, 2002-2003
- 1998 39. Parallel and distributed processing in graphics, image processing and computational geometry, 1998-1999.

### **12.3.2 Local team coordinator in collaborative projects**

- 2005 40. MedioGrid: Parallel and distributed image processing on grid architecture of geographical and environment data, 2005-2008.
- 41. GridMOSI: Virtual organization based on Grid technology for high performance modelling, simulation, and optimization, 2005-2008.
- 42. NanoSim: Transport phenomena and structure formation at the micro/nanometer scale in biomedicine and materials science, 2005-2008
- 43. ForMol: Computational formalism inspired by Molecular Biology, 2005-2008

### **12.3.3 Member**

- 2008 44. ASISTSYS: Integrated System of Assistance for Patients with Severe Neuromotor Affections, 2008-2011
- 45. SCIPA: Semantic software services for collaboration and inter-operability for adaptive business processes, 2008-2011
- 2007 46. SIPADOC: Integrated system for the digitization and capitalization of the document's cultural patrimony, 2007-2010
- 47. PEGAF: Grid-based experimental platform for developing applications based on workflows and with dynamic allocation of resources, 2007-2010
- 2006 48. SIAPOM: Integrated System for Analysis and Multidisciplinary Design Optimisation, 2006-2008
- 2005 49. SINRED: National management system for digital resources in science and technologies based on Grid architectures, Oct 2005- Sept 2008
- 50. MindSoft: Multi-agent models and soft computing in knowledge engineering, 2005-2007.
- 2001 51. Distributed environments for solving scientific problems, 2001-2003.
- 52. Distributed models for solving complex problems, 2001-2002.
- 2000 53. Center for advanced technologies in computer science, 2000-2001.
- 1998 54. Intelligent interfaces for nonlinear problems, 1998-2000.
- 1997 55. Pilot center for teaching informatics, 1997-2002
- 56. Computational geometry in movement planning, 1997.
- 57. Computer program for the strength to the seismic loads, 1997.
- 1996 58. Biographic methods for the study of nonlinear and unelastic behaviour of steel structures under seismic actions, 1996
- 1995 59. Intelligent environments for scientific computing, 1995-2002
- 60. Computing methods for seismic actions on steel structures, 1995.
- 1993 61. Coupling symbolic and numeric calculus, 1993-1994.

## 13 Activity impact

### 13.1 Indicators

**h-index** Google Academic: 21, ResearchGate: 19, Scopus/Mendeley: 15, WoS: 9

i10-index Google Academic: 49

**g-index** Google Academic: 38

**citations** Google Academic: over 2100, ResearchGate; over 1300, Scopus/Mendeley: over 770, WoS: over 300

## 13.2 Citations after 2000

10.1109/MIPRO.2015.7160281	(1,35)	10.1109/MIPRO.2015.7160280	(1)	10.1007/978-3-319-19509-4-4	(123)	
10.15849/icit.2015.0022	(36,126)	IJNIEET	(124)	10.1186/s13677-015-0037-5	(114,117)	
10.1016/j.procs.2015.05.176	(124,117)	10.1145/2641563	(65,57)	10.1109/MobServ.2015.52	(124)	
10.1007/s11227-015-1380-5	(10)	10.1007/978-3-319-19243-7-45	(114,117)	10.1007/s13369-015-1703-0	(1,37,101)	
10.1109/TLA.2015.7112014	(211)	TIIS	(104)	IJAREM	(101)	
10.1109/ICMCS.2014.6911351	(104)	10.1109/SITIS.2014.30	(37)	10.1109/WICT.2014.7077319	(87)	
10.1016/j.future.2015.04.019	(124)	10.1016/j.procs.2015.04.063	(1,124)	10.1109/IC3I.2014.7019735	(37)	
10.1109/JSTARS.2015.2390626	(24)	10.1016/j.simpat.2015.04.002	(1)	10.1109/CLOUD.2015.16	(1, 35, 101)	
10.1007/s10723-015-9335-x	(8)	CCGrid 2015	(87)	NASCC 2014	(6,291)	
10.1016/j.asoc.2015.04.025	(216)	10.1109/IC2E.2015.94	(124)	10.1016/j.proeng.2015.01.472	(171)	
Tech_report	(103)	10.1145/2716319	(104)	FC 2015	(87)	
10.1007/978-3-319-14886-1-24	(37,101)	10.1007/s10766-015-0358-5	(108)	10.1109/IC2E.2015.42	(37,124)	
10.1115/1.4030009	(101)	AIP	(15)	10.1016/j.cag.2015.02.005	(276)	
10.1016/j.ins.2015.01.025	(117)	10.1007/s11277-015-2410-6	(87)	j.proeng.2015.01.472	(171)	
10.1007/s11047-015-9488-3	(15)	10.1007/978-3-319-15585-2-7	(109)	10.1186/s13174-014-0017-x	(1,35,101,124)	
10.1109/JSTARS.2015.2390626	(24)	10.3233/IICA-150481	(211)	10.1016/j.future.2014.12.006	(1)	
arXiv:1501. 01323	(1)	10.1007/978-3-662-46248-5-11	(87)	10.1016/j.jcsr.2014.10.003	(6)	
10.1007/978-3-319-13153-5-32	(87)	10.1016/j.nahs.2014.08.004	(211)	10.1093/comjnl/bxt107	(87)	
10.1007/978-3-319-14886-1-26	(1)	10.1007/978-3-319-14886-1-23	(37,87)	10.1109/CloudTech.2015.7336983	(104)	
10.1002/cpe.3012	(1)	10.1109/CIT/PICOM.2015.220	(87)	10.5121/ijspmtm.2015.4402	(102)	
10.1109/TELFOR.2015.7377630	(35)	10.1109/WSCNIS.2015.7368308	(95)	10.1007/978-3-319-27072-2-32	(35)	
10.1007/978-3-319-14886-1-14	(8,124)	10.1109/MCC.2015.32	(37)	10.1109/VTCCFall.2015.7390868	(37)	
10.1109/SITA .2015.7358406	(37)	US patent	(89,171)	10.1109/TCC.2015.2441715	(124)	
10.1002/spe.2304	(124)	10.1109/LCNW.2015.7365920	(171)	10.1016/j.compeleceng.2015.02.003	(129)	
10.1109/IPDPSW.2015.114	(10,37)	10.5220/0005495104870496	(8)	10.5220/0005441203310342	(1,35,124,101)	
CAINE15	(161)	10.1109/AICCSA.2015.7507130	(1)	10.4018/978-1-4666-8339-6.ch002	(1, 87, 101, 171)	
2014	10.1007/s00607-013-0346-9	(101)	10.4018/ijoci.2014070102	(161)	10.1109/INCoS.2014.93	(124,103)
PhD thesis, UCL	(38)	10.13140/2.1.4991.7764	(6)	10.1109/NOF.2014.7119796	(171,102)	
10.1109/ICoCS.2014.7060961	(37)	10.1007/s11761-015-0174-1	(37)	10.1109/SMARTCOMP.2014.7043866	(124)	
INFORMATIK 2014	(1,103)	10.1177/0954405413506197	(1)	10.1109/UCC.2014.36	(8,119,124)	
10.1109/UCC.2014.90	(171)	10.12694/scpe.v15i4.1055	(37,104)	10.5194/isprsarchives-XL-7-133-2014	(2)	
10.1109/i-Society.2014.7009018	(101)	10.1002/cpe.3421	(23)	CASCON 2014	(37)	
10.1007/978-3-662-45523-4-7	(211)	10.1109/CEC.2014.6900601	(15)	10.1109/MCC.2014.41	(102)	
10.1007/978-3-662-43616-5-22	(104)	10.1109/WETICE.2014.55	(124)	10.1007/978-1-4471-6452-4-11	(1, 104, 170)	
10.1109/CLOUD.2014.98	(124)	10.1109/CLOUD.2014.139	(124)	10.1007/978-3-319-01571-2-32	(104, 170)	
IJSR	(104)	10.1007/978-3-319-14313-2-1	(8, 124)	10.1007/978-1-4471-6452-4-9	(1, 87, 101, 171)	
10.1145/2687233.2687242	(89)	10.1145/2659651.2664291	(114)	10.1145/2659651.2659735	(117)	
10.1109/CCST.2014.6986995	(117)	10.1007/978-3-319-14313-2-32	(1)	10.11394/tjpnsec.5.16	(211)	
10.1109/ISSREW.2014.47	(39)	10.1007/s00500-014-1539-7	(26)	10.1016/j.compeleceng.2014.11.002	(101,124)	
10.1109/EDOCW.2014.34	(128)	10.1109/CloudCom.2014.141	(129)	10.1109/SOCA.2014.56	(124)	
10.1007/s00371-014-1028-0	(18)	10.1109/CloudNet.2014.6968976	(8)	10.1007/978-3-662-45550-0-38	(1)	
10.1109/WORKS.2014.6	(37)	10.1109/ISPDC.2014.13	(124)	10.1145/2684080.2684082	(37)	
10.1145/2676662.2676676	(87)	CACIC 2014	(15)	10.1002/9781119042655.ch9	(171)	
Computing&Informatics	(170)	10.1109/CloudCom.2014.150	(8124)	CloudMDE 2014	(124)	
10.1109/WI-IAT.2014.11	(124)	10.1016/j.diin.2014.08.002	(1)	SSRC 2014	(6,291)	
10.4018/ijncr.2014040102	(211)	10.1109/UCC.2014.88	(124)	10.15439/2014F311	(88)	
10.1007/s10723-014-9311-x	(37)	10.1109/HPCSim.2014.6903709	(128)	10.1109/MOSOCA.2014.13	(1,37, 101, 124)	
10.1109/IC2E.2014.35	(279)	10.1109/COMPSACW.2014.85	(1)	10.1007/s10766-013-0273-6	(108)	
CASCON 2014	(10,124)	IJAER	(104)	10.1007/978-3-662-44879-3-11	(124)	
10.1109/COMPSAC.2014.20	(124)	10.1109/CISTI.2014.6877038	(88)	10.1016/j.simpat.2014.07.007	(1)	
10.1145/2628194.2628245	(277)	10.1109/ICCSE.2014.6926524	(119)	CloudMDE 2014	(1,87,124)	
10.1002/spe.2288	(103)	10.1109/CLOUD.2014.110	(10)	10.1109/LatinCloud.2013.6842213	(171)	
j.knosys.2014.07.018	(104)	10.9734/BJMCS/2014/10885	(101,128)	10.1109/INES.2014.6909366	(24)	
IIJRAE	(119)	10.1007/s13296-014-2007-z	(7)	10.1109/CCGrid.2014.62	(87)	
arXiv:1407.1963	(1)	10.1109/CCGrid.2014.100	(101)	10.6052/j.issn.1000-4750.2012.12.1013	(6, 7)	
Elektrotehniski Vestnik	(103, 126)	Elektrotehniski Vestnik	(122)	HPLP 2014	(108)	
Cloud Computing 2014	(283)	10.1007/978-3-319-07040-7-8	(124)	10.1007/978-3-319-13464-2-15	(87)	
arXiv:1406.5273v1	(24)	10.1016/j.asr.2014.06.018	(65)	10.1145/2662112	(87, 102, 124)	
10.1186/s13677-014-0009-1	(1)	10.1007/978-3-319-10422-5-18	(89)	10.1002/cpe.3641	(89)	
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