# Dana PETCU

## Curriculum vitae and Scientific activity

January 16, 2018

# Chapter 1

# Identification

### Personal data

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

### Contacts

Address: B-dul Vasile Pârvan 4, 300223 Timişoara, Romania, Skype: dana.petcu, Http://web.info.uvt.ro/~petcu, tel:+40-256-592-270/-370,fax:-136/+40-256-244834, e-mails: Dana.Petcu@e-uvt.ro, petcu@info.uvt.ro, dana@ieat.ro

### IDs in research indexing services

Scopus, WoS, ACM Digital Library, Google Scholar, DBLP, DBLP-Viz, Microsoft Academic, ResearchGate, ORCID, Mendeley, zbMATH, publons

## Experience

### Education

| | | | |
|---|---|---|---|
| MSc studies | Computer Science | University of Timişoara | September 1984 - June 1988 |
| Tempus | PhD scholarships | University of Heidelberg | Spring Semesters of 1992 & 1993 |
| PhD studies | Numerical Analysis | West University of Timişoara | 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 Timişoara | Assistant 1990-1994, Lecturer 1994-1997, Associate Professor 1997-2003, Professor 2003-present, PhD Advisor 2005-present |
| Bega-Pam, Timişoara | Programmer 1990 |
| IURT Lugoj | Programmer 1988-1990 |

### Management experience

| | | |
|---|---|---|
| Vice-rector | West University of Timişoara | 2016-present |
| Director | Institute e-Austria Timişoara | 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 |

### Expert evaluator

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

## 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 - 2017

### 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 |

# Chapter 2

# Publications

## 2.1 Journal papers

### 2.1.1 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

**Elsevier journals**

*2013* 2.1 D. Petcu, G. Macariu, S. Panica, C. Craciun, *Portable Cloud Applications - from Theory to Practice*, Future Generation Computer Systems 29 (6), 2013, 1417-1430, WoS: 000319235600010, doi: 10.1016/j.future.2012.01.009 (IF: 2.639, citations: 103)

*2012* 2.2 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* 2.3 D.Petcu, *The performance of parallel iterative solvers*, Computers & Mathematics with Applications 50, 2005, 1179-1189, WoS: 000232326400020, doi: 10.1016/j.camwa.2005.08.018 (IF: 0.43, citations: 4)

*2003* 2.4 D.Petcu, V.Gioncu, *Computer program for available ductility analysis of steel structures*, Computers & Structures, 81 (22-23), 2003, 2149-2164, WoS: 000185409800003, doi: 10.1016/S0045-7949(03)00296-7 (IF: 0.634, citations: 5)

*2001* 2.5 D.Petcu, *Experiments with an ODE Solver on a Multiprocessor System*, Computers & Mathematics with Applications 42 (8-9), 2001, 1189-1199, WoS: 000170803800016, doi: 10.1016/S0898-1221(01)00232-2 (IF: 0.383, citations: 1)

*1997* 2.6 V.Gioncu,D.Petcu,*Available rotation capacity of wide-flange beams and beam-columns.Part 1.Theoretical approaches*, Journal of Constructional Steel Research 43 (1-3), 1997, 161-217, WoS: A1997YE87600008,doi: 10.1016/S0143-974X(97)00044-8 (IF: 0.259, citations: 58)

2.7 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 43 (1-3), 1997, 219-244, WoS: A1997YE87600009, doi: 10.1016/S0143-974X(97)00045-X (IF: 0.259, citations: 32)

**Springer journals**

*2014* 2.8 D. Petcu, *Consuming Resources and Services from Multiple Clouds: From Terminology to Cloudware Support*, Journal of Grid Computing 12 (2), 321-345, 2014, WoS: 000339887600008, doi: 10.1007/s10723-013-9290-3 (IF:1.507, cits.: 48)

2.9 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 17 (1), 2014, 101-110, WoS: 000333111000006, doi: 10.1007/s10586-013-0263-x (IF: 1.510, citations: 3)

*2012* 2.10 N.M. Calcavecchia, B.A.Caprarescu, E. Di Nitto, D. J. Dubois, D. Petcu, *DEPAS: A Decentralized Probabilistic Algorithm for Auto-Scaling*, Computing 94 (8-10), 701-730,WoS: 000307971700005, doi: 10.1007/s00607-012-0198-8 (preliminary: Technical Report 2012.5 [259]) (IF: 0.807, citations: 20)

**Other journals with IF and indexed in WoS**

*2015* 2.11 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 27 (9), 2443-2469, 2015, WoS: 000355001700016, doi: 10.1002/cpe.3175 (IF: 0.997, Citations: 2)

*2014* 2.12 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 7 (6), 2281-2296, 2014,WoS: 000340621200037, doi: 10.1109/JSTARS.2014.2320896 (IF: 2.827, citations: 19)

2.13 J. Južna, P. Češarek, D. Petcu, V. Stankovski, *Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC*, Computing in Science and Engineering 16 (4), 68-77, 2014, WoS: 000337263400008, doi: 10.1109/MCSE.2013.135 (IF: 1.248, citations: 1)

*2010* 2.14 D. Gorgan, V. Bacu, D. Rodila, F. Pop, D. Petcu, *Experiments on ESIP-Environment oriented satellite data processing platform,* Earth Science Informatics 3 (4), 2010, WoS: 000286014500011, doi: 10.1007/s12145-010-0065-0 (IF: 0657, citations: 7)

*2005* 2.15 D.Petcu, C.Popa, *A new version of Kovarik's approximate orthogonalization algorithm without matrix inversion*, International Journal of Computer Mathematics 82 (10), 2005, 1235-1246,Taylor & Francis Ltd, WoS: 000232207600007, doi: 10.1080/00207160512331331174, (IF: 0.254, citations: 3)

### 2.1.2 Papers that are WoS related

**Papers in Springer LNCS series with IF**

*2005* 2.16 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, 2005 (IF: 0.402, citations: 1)

2.17 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, 2005 (IF: 0.402, citations: 2)

*2004* 2.18 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, 490-495, 2004 (IF: 0.515)

2.19 D.Petcu, D.Dubu, M.Paprzycki, *A Grid-based parallel Maple*, LNCS 3241, ISSN 0302-9743, WoS: 000224114000027, doi: 10.1007/978-3-540-30218-6_33, 215-223, 2004 (IF: 0.515, citations: 1)

*2002* 2.20 D. Petcu, H. Popa, D.Ţepeneu, *A user-level interface for clustering mathematical software kernels*, LNCS 2336, ISSN 0302-9743, WoS: 000181350300017, doi: 10.1007/3-540-47840-X_17, 2002, 175-182 (IF: 0.415)

2.21 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, (IF: 0.415 citations: 1)

*2001* 2.22 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 (IF: 0.415, citations: 2)

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 (IF: 0.415, citations: 1)

*2000* 2.24 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 (IF: 0.39, citation: 3)

*1999* 2.25 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 (IF: 0.872)

**Papers in journals currently indexed in WoS with AIS**

*2006* 2.26 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 ()

2.27 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* 2.28 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: 5)

2.29 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* 2.30 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, 373-384 (▪)

*1993* 2.31 D.Petcu, *On the Kantorovich Hyphothesis 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: 3)

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

*2015* 2.32 D. Petcu, G. Iuhasz, D. Pop, D. Talia, J. Carretero, R. Prodan, T. Fahringer, I. Grasso, R. Doallo, M.J. Martín, B. B. Fraguela, 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

*2014* 2.33 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 (citations: 25)

*2012* 2.34 D. Petcu, *A Panorama of Cloud Services*, Scalable Computing:Practice & Experience 13 (4), 2012, 303-314, link (cits: 1)

*2010* 2.35 M. E. Frîncu, 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* 2.36 D. Petcu, A. Cârstea, G. Macariu, M. Frîncu, *Service-oriented Symbolic Computing with SymGrid*, Scalable Computing: Practice and Experience, vol. 9, no. 2, ISSN 1895-1767, 2008, 111-124, link

*2006* 2.37 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)

2.38 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)

### 2.1.3 Papers in internationally refereed journals

*2018* 2.39 S. Panica, B. Irimie, D. Petcu, *Enabling and monitoring platform for cloud-based application, International Journal of High Performance Computing and Networking*, Int. Journal of High Performance Computing and Networking, in print

*2015* 2.40 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 2 (2), 6-27, 2015, doi: doi: 10.14529/jsfi150201 (citations: 4)

2.41 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

2.42 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/jsfi15020510.14529/jsfi150205 (citations: 2)

*2014* 2.43 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 (citations: 10)

*2013* 2.44 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 (citations: 45)

*2012* 2.45 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 (citations: 3)

*2011* 2.46 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: doi: 10.1504/IJGUC.2011.039979 (citations: 1)

*2010* 2.47 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* 2.48 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 (citations: 1)

2.49 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 (citations: 1)

2.50 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)

2.51 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* 2.52 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)

2.53 D. Petcu, *Grid Services for Satellite Image Processing*, Transactions on Computers, Issue 2, Vol. 6, ISSN 1109-2750, 347-354, 2007 link (citations: 2)

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* 2.55 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

2.56 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 1742-7185, ACM DL (citations: 2)

*2002* 2.57 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, 2002, ISSN 1072-3374, doi: 10.1023/A:1013560909786. Extension of [58]

*1999* 2.58 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, 318-334, link. Preliminary version of [57]

2.59 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)

### 2.1.4 Papers in Romanian refereed journals

*2012* 2.60 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

2.61 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* 2.62 D. Petcu, A. Eckstein, A. Carstea, A. Craciun, *Mathematics on the net: state of the art and challenges*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XLVII, 2, 2009, 95-116 link

*2008* 2.63 D. Petcu, S. Panica, *Document Conversions Using Grid-based e-Infrastructure for Digital Libraries*, Scientific Bulletin of Politehnica Univ. Timişoara, Transactions on Automatic Control and Computer Science 53 (67:3), 2008, 139-144, link

*2006* 2.64 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* 2.65 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)

2.66 D. Petcu, *Building a computational grid: design issues*, Analele Ştiinţifice ale Universităţii "Alexandru Ioan Cuza" din Iaşi, Informatică, Tomul XV, 2004, 139-152.

2.67 C.Popa, D. Petcu, M. Petcu, *On Kovarik's Orthogonalization Algorithm without Matrix Inversion*, Sci. Bull. Politehnica Univ. Timişoara, Transactions on Automatic Control and Computer Science 49 (63), 2004, ISSN 1224-600X, 223-226

2.68 D.Petcu, D.Dubu, *Mapping general purpose scientific computing environments onto a computational grid*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XLII, 2004, 197-212, link

*2002* 2.69 D.Petcu, C.Popa, *On the Parallel Implementation of Kovarik's Approximate Orthogonalization Algorithm*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XL, 2002, 197-212, link

2.70 D. Petcu, *On the speedup of parallel iterative numerical methods*, Analele Ştiinţifice ale Universităţii "Al. I. Cuza" din Iaşi, Tomul XI, 2002, p. 304-317, link

*2001* 2.71 D.Petcu, D. Vizman, M. Popescu *Computational Fluid Dynamic on a Cluster*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXIX, 2001, 171-180, link

*2000* 2.72 D.Petcu, *A prototype system for cooperative CAS tasks*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXVIII, 2000, 125-140, link

*1999* 2.73 D. Petcu, *Parallel Solving Environment for ODEs*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXVII, 1999, 45-57, link

2.74 D. Petcu, *Design of an User Interface for Mathematical Software*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXVII, 1999, 137-142, link

*1995* 2.75 D.Petcu, *Implicit Runge-Kutta Methods on a Distributed Computational System*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXIII, fasc. 2, 1995, 209-220, link

2.76 D.Petcu, L.Cucu, *Plotting Conics and Quadrics on a Distributed Computational System*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXIII, fasc. 2, 1995, 221-231, link

*1994* 2.77 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, 197-216, ISSN 1220-6016

2.78 D.Petcu, *Parallel Algorithms for the Numerical Integration of Stiff ODE Systems*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXII, fasc. 2, 1994, 65-81, link

*1993* 2.79 D.Petcu, *Modified Adams-Moulton Schemes for Solving Stiff Differential Equations*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXI, fasc. 1, 1993, 101-112, link

2.80 D.Petcu, *Second Derivative Split Multistep Methods for Stiff Ordinary Differential Equations*, Analele Universităţii din Timişoara, Seria Matematică-Informatică, vol. XXXI, fasc. 2, 1993, 229-254, link

*1992* 2.81 D.Petcu, *One-step Discretization of Stiff Differential Equations*, Analele Universităţii din Timişoara, Seria Ştiinţe Matematice, vol. XXX, fasc. 1, 1992, 59-87, link

2.82 D.Petcu, *A Family of Multistep Linear Methods for Solving Stiff Ordinary Differential Equations*, Analele Universităţii din Timişoara, Seria Ştiinţe Matematice, vol. XXX, fasc. 2-3, 1992, 257-282, link

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Categories according CORE: A*, A, B, C

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*2008* 2.89 D.Petcu, A. Eckstein, C. Giurgiu, *Reengineering a software system implementing parallel methods for differential equations*, 7th Int. Conf. Software Engineering, Parallel& Distributed Systs. (SEPADS), 2008, ISBN 9878-960-6766-42-8, 95-100, WoS: 000263783600013, ACM

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*2006* 2.91 D.Petcu, *Automatic Generated Clients of Grid Services for Computational Fluid Dynamics*, Procs. MATH'06, 10th International Conference on Applied Mathematics, ISBN 960-8457-55-6, 96-101, ACM

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*2013* 2.280 D. Petcu, *Building Automatic Clouds with an Open-source and Deployable Platform-as-a-service*, Advances in Parallel Computing, Vol 23: Cloud Computing and Big Data, eds. C. Catlett, W. Gentzsch, L. Grandinetti, G. Joubert, J.L. Vazquez-Poletti, 978-1-61499-321-6, 3-19, IOS Press, WoS: 000350347400001, doi: 10.3233/978-1-61499-322-3-3

2.281 R. Cossu, C. Di Giulio, F. Brito and D. Petcu, *Cloud Computing for Earth Observation*, in Data Intensive Storage Services for Cloud Environments, ed. Dimosthenis Kyriazis, Athanasios Voulodimos, Spyridon V. Gogouvitis and Theodora Varvarigou, 166-191 (2013), doi: 10.4018/978-1-4666-3934-8.ch012 (citations: 2)

2.282 D. Petcu, M. Rak, *Open-Source Cloudware Support for the Portability of Applications Using Cloud Infrastructure Services*, In Z. Mahmood (ed.), Cloud Computing: Methods and Practical Approaches, Computer Communications and Networks, doi: 10.1007/978-1-4471-5107-4_15, Springer-Verlag, London, 2013, 323-341 (citations: 4)

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computational technologies, Romanian Academy Publishing House, 2012, ISBN 978-973-27-2256-5, 89-98

2.284 M. Rak, M. Ficco, J. Luna, H. Ghani, N. Suri, S. Panica, D. Petcu, *Security Issues in Cloud Federation*, In Achieving Federated and Self-Manageable Cloud Infrastructures: Theory and Practice, eds. Massimo Villari, Ivona Brandic, Francesco Tusa, IGI Global, 2012, 176-194, doi: 10.4018/978-1-4666-1631-8.ch010, ISBN: 978-1-4666-16318 (citations: 9)

2.285 D. Petcu, *Invitation to a Journey in the ERA of Cloud Computing*, in D.Petcu, J.L. Vazquez-Poletti (eds), European Research Activities in Cloud Computing, Cambridge Scholars Publishing, UK, January 2012, 1-18, link

*2011* 2.286 K. Wasielewska, M. Ganzha, M. Paprzycki, M. Drozdowicz, D. Petcu, C. Badica, N. Attaoui, I. Lirkov, R. Olejnik, *Negotiations in an Agent-based Grid Resource Brokering System*, in P. Ivnyi, B.H.V. Topping (Eds.), Trends in Parallel, Distributed, Grid and Cloud Computing for Engineering, Saxe-Coburg Publications, Chapter 16, 355-374, 2011. Computational Science, Engineering & Technology Series, doi: 10.4203/csets.27.16, ISBN 978-1-874672-53-1 (cits: 2)

2.287 M. Drozdowicz, K. Wasielewska, M. Ganzha, M. Paprzycki, N. Attaoui, I. Lirkov, R. Olejnik, D. Petcu, C. Badica, *Ontology for Contract Negotiations in an Agent-based Grid Resource Management System*, P. Ivnyi, B.H.V. Topping (Eds.), Trends in Parallel, Distributed, Grid and Cloud Computing for Engineering, Saxe-Coburg, Chapter 15, 335-354, 2011. Comput.Science, Engineering & Technology Series, doi: 10.4203/csets.27.15, ISBN 978-1-874672-53-1 (cits: 3)

2.288 F. Moscato, R.Aversa, B. Di Martino, D. Petcu, M. Rak, S. Venticinque, *An Ontology for the Cloud in mOSAIC*, in Cloud Computing: Methodology, Systems, and Applications. L. Wang, R. Ranjan, J. Chen, B. Benatallah, 2011, CRC Press, ISBN: 978-1439856413, 467-486, WoS: 000357178400022, doi: 10.1201/b11149-24 (citations: 12)

*2010* 2.289 D. Petcu, G. Macariu, A. Carstea, M.E. Frincu, *Service-Oriented Symbolic Computing.* Chapter 15 in Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications, Eds. N. Antonopoulos, G. Exarchakos, A. Liotta, M. Li, ISBN: 978-1-61520-686-5 , Information Science Reference, Hershey, 2010, 1053-1075, doi: doi: 10.4018/978-1-61520-686-5.ch045 (citations: 1)

*2009* 2.290 D. Petcu, *Challenges of Data Processing for Earth Observation in Distributed Environments*, G.A. Papadopoulos and C. Badica (Eds.): Intelligent Distributed Computing III, Studies in Computational Intelligence SCI 237, ISSN: 1860-949X, Springer, 9-19 (invited talk at IDC 2009), WoS: 000274283000002, doi: 10.1007/978-3-642-03214-1_2 (citations: 1)

2.291 D. Petcu, D. Zaharie, M. Neagul, S. Panica, M. Frincu, D. Gorgan, T. Stefanut, V. Bacu, *Remote Sensed Image Processing on Grids for Training in Earth Observation*, Chen Yung-Sheng (ed.), Image Processing, ISBN 978-953-307-026-1, In-Teh, 2009, 115 - 140, doi: 10.5772/7049 (citations: 1, downloads over 11000)

2.292 D. Petcu, A. Baltat, *Transforming an Interactive Expert Code into a Statefull Service and a Multicore-Enabled System*, in Intelligent Systems and Technologies Methods and Applications, Series: Studies in Computational Intelligence , Vol. 217 Teodorescu, H.-N.; Watada, J.; Jain, L.C. (Eds.) 2009, ISBN: 978-3-642-01884-8, 137-159, WoS: 000268638100008, doi: 10.1007/978-3-642-01885-5_8 (citations: 2)

*2006* 2.293 D.Petcu, D.Ţepeneu, M.Paprzycki, T.Ida, *Symbolic Computations on Grids*, invited chapter 6 in the book "Engineering the Grid: status and perspective", eds. B. di Martino, J. Dongarra, A. Hoisie, L. Yang, H. Zima, American Scientific Publishers, ISBN: 1-58883-038-1, 2006, 91-107, link

2.294 D.Petcu, M. Paprzycki, M. Ganzha, *Cluster Computing facilities in a service-oriented architecture*, Russian book, 2006.

*2003* 2.295 D.Zaharie, D.Petcu, *Adaptive Pareto Differential Evolution and its Parallelization*, LNCS 3019, ISSN 0302-9743, 2003, 261-268, WoS: 000221559200034, doi: 10.1007/978-3-540-24669-5_34 (citations: 56)

*2002* 2.296 D. Petcu, V.Gioncu, *DUCTROT computer program*, in Ductility of Seismic-Resistant Steel Structures, V. Gioncu, F.M. Mazzolani, E &FN Spon, Londra (2002), 673-682, ISBN 049225501 & Demo CD with DuctRot-M, link

*2000* 2.297 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, WoS: 000086116500010, doi: 10.1007/978-3-642-57172-5_10 (citations: 10)

2.298 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, Springer, ISSN 0179-9614, 180-195, link

2.299 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, link (citations: 7)

*1997* 2.300 D.Petcu, *Implementation of some multiprocessor algorithms for ODEs using PVM*, LNCS 1332, ISSN 0302-9743, 1997, 375-383, WoS: 000077561700046, doi: 10.1007/3-540-63697-8_107

### 2.4.2 Monographs

*1998* 2.301 D.Petcu, *Parallelism in solving ordinary differential equations*, Mathematical Monographs 64, Tipografia Universităţii din Timişoara, 1998, 232 pages (citations: 14)

*1996* 2.302 D.Petcu, *Parallel Numerical Algorithms. Part I: Solving systems of linear, nonlinear or differential equations*, Mathematical Monographs 60, Tipografia Universităţii din Timişoara, 1996, 148 pages.

2.303 D.Petcu, *Parallel Numerical Algorithms. Part II: Solving partial differential equations*, Mathematical Monographs 61, Tipografia Universităţii din Timişoara, 1996, 134 pages.

*1995* 2.304 D.Petcu, *Multistep Methods for Stiff Initial Value Problems*, Mathematical Monographs 50, Tipografia Universităţii din Timişoara, 1995, 186 pages.

*1994* 2.305 D.Petcu, *Parallel computing* (in Romanian), Editura de Vest, Timişoara, 1994, ISBN 973-36-0227-2, 160 pages.

### 2.4.3 Textbooks

*2006* 2.306 D.Petcu, *Grid architectures and technologies* (in Romanian), Ed. Eubeea, Timişoara, ISBN 973-673-056-7, 2006, 292 pages (citations: 3)

2.307 L.Cucu, V.Iordan, V.Negru, D.Petcu, G.Petrov, P.Popovici, D.Zaharie, *Tests for informatics exams* (in Romanian), Ed.

Mirton, Timişoara, ISBN 973-661-844-7, 2006, 166 pages.

2004 2.308 D.Petcu, D.Pop, *Modeling three-dimensional world* (in Romanian), Ed. Eubeea, Timişoara, ISBN 973-673-011-5, 2004.

2002 2.309 D.Petcu, V.Negru, *Distributed processing* (in Romanian), Editura Universităţii de Vest, Seria Alef, 2002, Timişoara, ISBN 973-85552-8-0 (citations: 2)

2001 2.310 D.Petcu, *Parallel processing* (in Romanian), Edit. Eubeea, 2001, Colecţia Informatică, Timişoara, ISBN 973-9479-48-0

2000 2.311 D.Petcu, *Mathematics assisted by computers* (in Romanian), Colecţia Informatică, Editura Eubeea, 2000, Timişoara, ISBN 973-9479-13-8.

1999 2.312 D.Petcu, L.Cucu, *Computer Graphics* (in Romanian), Tipografia Universităţii Timişoara, 1999.

1998 2.313 O. Dogaru, Gh. Bocşan, I. Despi, A. Ionică, V. Iordan, L. Luca, D. Petcu, P. Popovici, *Informatics for teachers* (in Romanian), Editura de Vest, Timişoara, 1998, ISBN 973-36-0308-2.

1997 2.314 D.Petcu, *Maple, a standard for computer assisted mathematics* (in Romanian), Tipografia Universităţii Timişoara, 1997.

1995 2.315 O.Dogaru, D.Petcu, Gh.Petrov, *Turbo Pascal. Exercises and problems* (in Romanian), Timişoara, Editura de Vest, 1995, ISBN 973-36-0200-0.

2.316 D.Petcu, L.Cucu, *Computer graphics principles* (in Romanian), Edit. Excelsior, Timişoara, 1995, ISBN 973-9015-51-4

1994 2.317 D.Petcu, *Parallel algorithms* (in Romanian), Tipografia Universităţii Timişoara, 1994.

# Chapter 3

# Support activities

## 3.1 Special talks

### 3.1.1 Invited talks

2017 3.1 D. Petcu, *Mastering the heterogeneity in HPC as a Service*, NESUS Sixth Working Group, Bayreuth, Apr 2017, link

2016 3.2 D. Petcu, *Service Quality Assurance for Cloud-based Data-intensive Applications*, SEE Data Science Forum, Belgrad, June 2016, link and abstract

3.3 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 3.4 D. Petcu, *Challenges of Multi-Clouds*, AMGCC14 / ICAC 2014, London, September 2014, link

2012 3.5 D. Petcu, *Benefits and Barriers of Symbolic Computations on Clouds and Grids*, ACA 2012, Sofia, June 2012, link

2009 3.6 D. Petcu, *Challenges of Data Processing for Earth Observation in Distributed Environments*, IDC 2009 - 3rd International Symposium on Intelligent Distributed Computing, Cyprus, link

2007 3.7 D. Petcu, *Distributed Symbolic Computations*, Invited talk, ISPDC 2007, July 5-8 2007, Hagenberg, link

3.8 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

3.9 D.Petcu, *Mathematics on the net: state-of-the-art and challenges*, 8th French-Romanian Colloquium on Applied Mathematics, 28-31 August 2006, Chambery, France

2005 3.10 D.Petcu, *Software issues in solving initial value problems for ordinary differential equations*, ICCAM 2005, Baia Mare.

2002 3.11 D. Petcu, *Applications of multiprocessing in solving differential equations*, Simpozion Intinerant, Secţiunea Matematică Aplicatăşi Informatică, Constanţa, 16.01.2002

### 3.1.2 Invited keynotes

2017 3.12 D. Petcu, *HPC as a Service: Challenges and Limitations*, ISPDC 2017, Innsbruck, July 2017, link

2015 3.13 D. Petcu, *Service quality assurance in multi-clouds*, GECON 2015, Cluj, Sept 2015, link

2012 3.14 D. Petcu, *HPC in the Cloud*, CLASS Conference 2012, Bled, Oct 2012

3.15 D. Petcu, *From a Desktop to a Supercomputer, Cluster, Grid, Cloud, InterCloud: Where my Research Code Should Run?*, ComputationWorld 2012, Nisa, July 2012, link

3.16 D. Petcu, *The Cloudy Sky of Programmable Infrastructures*, HEUNET workshop at SAINT 2012 , Izmir, July 2012, link

3.17 D. Petcu, *Building European consensus on sustainability*, e-FISCAL workshop, Samos, July 2012, link

3.18 D. Petcu, *Open-source platform-as-a-service: requirements and implementation challenges*, High Performance Computing, Grids and Clouds, Cetraro, June 2012, link

2011 3.19 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 3.20 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 3.21 D. Petcu, Grid-based Services for High Education in Earth Observation, 4th GRID & e-Collaboration Workshop, 25-26 Feb. 2009, Frascati, link

3.22 D.Petcu, e-Science and Grids, EWM 2009, NoviSad, August 2009

2008 3.23 D. Petcu, Recent experiences in Grid-enabling legacy software codes, presentation at Alice workshop, Sibiu, 2008.

3.24 D. Petcu, S. Panica, Using Desktop Grids for Evolutionary Multi-objective Optimization, DAPSYS 2008, Debrecen.

2001

3.25 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* 3.26 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.

### 3.1.3 Invited project presentations

*2014* 3.27 D. Petcu, *MODAClouds project*, European Project Space, CLOSER 2014, Barcelona, April 2014

*2013* 3.28 D. Petcu, *Modelling Quality of Service for the Cloud*, Engineering the Cloud, ICT 2013, Vilnius, November 2013.

3.29 D. Petcu, *Towards Application Level Interoperability in Multi-Clouds*, Cloud Standards and Interoperability Workshop, CloudPlugFest 2013, Madrid, September 2013.

3.30 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* 3.31 D. Petcu, *Open-source platform-as-a-service*, 2nd Working Meeting of IFIP WG on Services-oriented Systems, Bologna, September 2012

3.32 D. Petcu, *Storage and Software Components Management in Multiple Clouds using mOSAIC*, e-Challenges 2012, Lisbon, October 2012

3.33 D. Petcu, *mOSAIC- facts, objectives and current results*, CLASS conference, Bled, October 2012

3.34 D. Petcu, *How to build a reliable mOSAIC of multiple Cloud services*, EWDCC 2012, Sibiu, May 2012, link

### 3.1.4 Invited papers

*2014* 3.35 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* 3.36 D.Petcu *Portability and Interoperability between Clouds: Challenges and Case Study*, ServiceWave 2011, Poznan, link

### 3.1.5 Invited tutorials

*2014* 3.37 D. Petcu, *Multi-Clouds: from models to runtime support*, SummerSOC 2014, Advanced School on Service Oriented Computing, Hersonissos, July 2014, link

*2013* 3.38 D. Petcu, *Cloud Management Software for Multi-Clouds*, Cloud computing SummerSchool, "Paving the way to the Cloud", Almere, July 2013.

*2012* 3.39 D. Petcu, *How to Port an Application Between Clouds?*, ADAPTIVE 2012, Nice, July 2012, link

*2011* 3.40 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* 3.41 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* 3.42 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.

### 3.1.6 Invited lectures

*2015* 3.43 D. Petcu, *Cloud Computing*, TEMPUS+ lecture at University of Pavia, 28-29 April 2015, link

*2013* 3.44 D. Petcu, *The challenges of Multi-Clouds*, seminar at University of Pavia, December 19, 2013, link

3.45 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* 3.46 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* 3.47 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.

### 3.1.7 Invitations to expert panels

*2014* 3.48 D. Petcu, *Security in MultiClouds*, 2014 IEEE COMPSAC, IEEE Convergence Panel, Västerøas, Sweden, July 2014

3.49 D. Petcu, *Challenges of Cross-Clouds*, 2014 IEEE INFOCOM Workshop on Cross-Cloud Systems, Toronto, April 2014

3.50 D. Petcu, *Cloud computing perspective in R&D projects*, European Project Space, CLOSER 2014, Barcelona, Aprilie 2014.

*2013* 3.51 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* 3.52 D. Petcu, *Perspective on Fog computing*, FOG Panel, CLASS Conference, Bled, Oct 2012

3.53 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

3.54 D. Petcu, *e-IRG and mOSAIC position*, CloudScape IV, Panel: Trust, Legal & Security Issues in Cloud Computing, Feb 2012, Brussels

*2008* 3.55 D. Petcu, *HPC in Romania*, PARA 2008, Panel 2: Future Trends in Parallel & Scientific Computing, May 2008, Trondheim

*2006* 3.56 D.Petcu, *QoS in Grid environments*, ICCGI Panel: Integrated Network and Application QoS for GRID Applications, July 30, 2006, Bucharest

### 3.1.8 Invited contributions to research policy documents

*2016* 3.57 InfraCluster of Cloud related projects, White paper, April 2016

*2015*

3.58 InfraCluster of Cloud related projects, Recommendations for the workprogramme H2020-ICT-2018-2019, December 2015
3.59 InfraCluster of Cloud related projects, Map of challenges, October 2015
*2012* 3.60 e-IRG Task Force on Cloud Computing, Cloud Computing for research and science: a holistic overview, policy, and recommendations, 30 Oct 2012,
3.61 Cloud Computing Expert Group Report, Advances in Clouds. Research in Future Cloud Computing, May 2012
3.62 Cloud Expert Group Recommendations, A Roadmap for Advanced Cloud Technologies under H2020, December 2012

## 3.2 Editorial activity

### 3.2.1 Editor-in-Chief

*2009* 3.63 Scalable Computing: Practice and Experience (SCPE, from 2009), in WoS from 2015

### 3.2.2 Member in editorial board

*2016* 3.64 EAI Endorsed Transactions on Cloud Systems, ISSN: 2410-6895 (CloudSys, from 2016)
*2014* 3.65 Complex Systems Informatics and Modeling Quarterly, ISSN: 2255-9922 (CSIMQ, from 2014)
*2013* 3.66 Soft Computing and Networking, ISSN: 2052-8450 (IJSCN, from 2013)
*2008* 3.67 International Scientific Journal of Computing, ISSN: 2312-5381 (CISJfrom 2008)
*2006* 3.68 Multiagent and Grid Systems, ISSN: 1574-1702 (MAGS, from 2006), in WoS
3.69 Journal on Computer Science and Information Systems, ISSN: 1646-3692 (IJCSIS, from 2006),
3.70 International Review on Computers and Software, ISSN: 1828-6003 (IRECOS, from 2006),
3.71 International Journal of Computers, Communications and Control, ISSN 1841-9836 (IJCCC, from 2006), in WoS
*2005* 3.72 International Journal of Computer Science and Applications, ISSN: 0972-9038 (IJCSA, from 2005)
3.73 Scalable Computing: Practice and Experience (SCPE, from 2005), in WoS

### 3.2.3 Journal reviewer

*2017* 3.74 IEEE Journal on Selected Areas in Communications (JSAC, from 2017)
3.75 Applied Soft Computing (ASOC, from 2017)
3.76 Sustainable Computing, Informatics and Systems(SUSCOM, from 2017)
3.77 Software: Practice and Experience (SPE, from 2017)
3.78 Symmetry (Symmetry, from 2017)
3.79 IEEE Access (Access, from 2017)
3.80 Computer Languages, Systems & Structures (COMLAN, from 2017)
3.81 Journal of Software: Evolution and Process (JSME, from 2017)
3.82 Studies in Informatics and Control (SIC, from 2017)
3.83 International Journal of Services Technology and Management (IJSTM, from 2017)
3.84 Open Cybernetics & Systemics Journal (TOCSJ, from 2017)
*2016* 3.85 Transactions on Large Scale Data and Knowledge Centered Systems (TLDKS, from 2016)
3.86 International Journal of Cooperative Information Systems (IJCIS, from 2016)
3.87 Computing and Informatics (CAI, from 2016)
3.88 Journal of Applied Remote Sensing (JARS, from 2016)
3.89 ACM Computing Surveys (CSUR, from 2016)
3.90 International Journal of Computer Engineering Research (IJCER, from 2016)
3.91 Journal of King Saud University - Computer and Information Sciences (JKSU-CIS, from 2016)
3.92 International Journal of High Performance Computing Applications (IJHPCA, from 2016)
*2015* 3.93 Journal of Sensors (JS, from 2015)
3.94 Journal of Hydrology (HYDROL, from 2015)
3.95 Scientific Programming (SP, from 2015)
3.96 Journal of Computer Networks and Communications (JCNC, from 2015)
3.97 IEEE Transactions on Services Computing (TSCSI, from 2015)
3.98 Central European Journal of Computer Science (CEJCS, from 2015)
3.99 Journal of Systems and Software (JSS, from 2015)
3.100 Computers & Mathematics with Applications (CAMWA, from 2015)
3.101 Egyptian Informatics Journal, Elsevier (EIJ, from 2015)
*2014* 3.102 Mathematical Problems in Engineering (MPE, from 2014)
3.103 Journal of Web Engineering (JWE, from 2014)
3.104 Journal of Computational and Applied Mathematics (CAM, from 2013)
3.105 Journal of Cloud Computing: Advances, Systems and Applications (JOCASA, from 2014)
3.106 International Journal of Distributed Sensor Networks (IJDSN, from 2014)
3.107 Peer-to-Peer Networking and Applications (PPNA, from 2014)
3.108 International Journal of Digital Earth (IJDE, from 2014)
3.109 Data & Knowledge Engineering (DATA-K, from 2014)
3.110 IEEE Transactions on Computers (TC, from 2014)
3.111 Journal of Parallel and Distributed Computing (JPDC, from 2014)
3.112 IEEE Systems Journal (ISJ, from 2014)
3.113 IEEE Cloud Computing Magazine (CCM, from 2014)
3.114 Concurrency and Computation: Practice and Experience (CCPE, from 2014)

3.115 Environment Research (ER, from 2014)
*2013* 3.116 Journal of Universal Computer Science(J.UCS, from 2013)
3.117 International Journal of Advanced Computer Science and Applications (IJACSA, from 2013 until 2017)
3.118 Geoinformatics & Geostatistics: An Overview (GIGS, from 2013)
3.119 Computer Science (CSCI, from 2013)
3.120 Applied Mathematics & Information Sciences (AMIS, from 2013)
3.121 Simulation Modelling Practice and Theory (SIMPAT, from 2013)
3.122 Computing (COMP, from 2013)
3.123 IEEE Transactions on Cloud Computing (TCC from 2013)
3.124 World Wide Web: Internet and Web Information Systems (WWW, from 2013)
3.125 Informatica (Informatica, from Vilnius, 2013)
*2012* 3.126 Scientific Research and Essays (SRE, from 2012)
3.127 IEEE Transactions on Dependable and Secure Computing (TDSC, from 2012)
3.128 Computer Science and Information Sciences (ComSIS,from 2012)
3.129 IEEE Transactions on Parallel and Distributed Systems (TPDS, from 2012)
3.130 Journal of Network and Computer Applications (JNCA, from 2012)
3.131 IEEE Computer (Computer, from 2012)
*2011* 3.132 Journal of Grid Computing, Springer (JGC, from 2011)
*2010* 3.133 Computer Standards & Interfaces, Elsevier (CSI, from 2010)
3.134 Journal of Supercomputing (JoS, from 2010)
3.135 Journal of Computational Science (JoCS,from 2010)
*2008* 3.136 Information Sciences, Elsevier (INS, from 2008)
*2007* 3.137 Engineering Applications of Computational Fluid Mechanics (JEACFM, from 2007)
3.138 International Journal of Grid and Utility Computing (IJGUC, from 2007)
3.139 Bulletin of the Belgian Mathematical Society (BBMS, from 2007)
3.140 International Journal of Computational Science and Engineering (IJCSE, from 2007)
*2006* 3.141 Mathematical Reviews (MR, from 2006 until 2012),
3.142 International Journal of Computer Mathematics, Taylor & Francis (IJCM, from 2006)
*2005* 3.143 Computing Reviews (CR, from 2005 until 2013),
3.144 Journal of Systemics, Cybernetics and Informatics (JSCI, from 2005),
3.145 Parallel Computing, Elsevier (PARCO, from 2005)
3.146 Future Generation Computer Systems, Elsevier (FGCS, from 2005),
*1998* 3.147 Annals of West University of Timişoara, Mathematical-Computer Science Series (AWUTM, from 1998)
*1993* 3.148 Zentralblat fur Mathematik (ZBL, from 1993)

### 3.2.4 Journal editorials

*2018* 3.149 G.A. Gravvanis, J.P. Morrison, D. Petcu, T. Lynn, C.K. Filesos-Papadopoulus, *Special Issue: Recent trends in cloud computing*, Future Generation Computer Systems (FGCS), Vol. 79, Part 2, Feb 2018, 700-702 doi: 10.1016/j.future.2017.11.006
*2016* 3.150 D. Petcu, *Introduction to the Special Issue on New Approaches for Infrastructure Services*, Scalable Computing: Practice and Experience 17 (4), iii-iv, doi: doi: 10.12694/scpe.v17i4.1199
*2013* 3.151 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* 3.152 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
3.153 D. Petcu, D. Zaharie, *Agent based systems & semantic software services*, Scalable Computing: Practice and Experiences 13 (1), 2012, link
*2011* 3.154 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
3.155 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
3.156 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* 3.157 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* 3.158 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* 3.159 D. Petcu, *Practical Aspects of Large-Scale Distributed Computing*, Scalable Computing: Practice and Experience (SCPE) 8 (3), 2007 (electronic version, ISSN 1097-2803, link
3.160 D. Petcu, *Challenges concerning symbolic computations on grids*, Scalable Computing: Practice and Experience (SCPE) 6 (3), 2005 (electronic version, ISSN 1895-1767, link

### 3.2.5 Proceedings editor

*2016* 3.161 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
3.162 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*

3.163 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* 3.164 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* 3.165 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* 3.166 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

3.167 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* 3.168 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

3.169 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

*2010* 3.170 T. Ida, V. Negru, T. Jebelean, D. Petcu, S. Watt, D. Zaharie (eds.), 12th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2010, IEEE Computer Press, ISBN: 978-0-7695-4324-6, doi: 10.1109/SYNASC.2010.1

3.171 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

*2009* 3.172 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

3.173 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* 3.174 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* 3.175 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* 3.176 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

3.177 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* 3.178 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

3.179 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* 3.180 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* 3.181 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* 3.182 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

### 3.2.6 Book editor

*2017* 3.183 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: 4)

*2012* 3.184 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)

### 3.2.7 Book introductions

*2013* 3.185 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

### 3.2.8 Book reviews

*2008* 3.186 D. Petcu, A Comprehensive Development Guide for the Globus Toolkit, IEEE Distributed Systems Online, vol. 9, no. 6, 2008, art. no. 0806-o6003, doi: doi: 10.1109/MDSO.2008.15 (citations: 3)

*2005* 3.187 D. Petcu, Parallel Numerical Applications on Grid Environments, IEEE Distributed Systems Online, vol. 6, no. 4, Apr., 2005, doi: 10.1109/MDSO.2005.21

## 3.3 Science support activities

### 3.3.1 Member in steering committees of conference series/Advisory Comittee

*2018* 3.188 DS-DC (from 2018)
*2015* 3.189 OBD (from 2015),
*2006* 3.190 ISPDC. (from 2006)
*2003* 3.191 SYNASC. (from 2003)

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

*2018* 3.192 ICAC (IT)
*2017* 3.193 Innovate-Data (CZ), Mobile, Hybrid and Emerging Cloud track & TAPEMS workshop/CCGrid. (ES), SOSeMC/ICAC. (US), WSC/FedCSIS (CZ), HPC-ST/SYNASC. (RO)
*2016* 3.194 SOSeMC/ICAC. (AT), ICA3PP./Track BigData&Appl (SP), CLIoT/ESOCC (AT), MICAS and HPC-ST/SYNASC. (RO), WSC/FedCSIS (PL)
*2015* 3.195 AIMC/Eurosys. (FR), CLIoT (IT), MICAS and HPC-E5/SYNASC. (RO)
*2014* 3.196 MultiCloud/CLOSER (SP), MICAS and HPCReS/SYNASC. (RO), C4Bio/CCGrid. (US), SCoDiS-LaSCoG (PL), SoftwareArch/FiCloud (ES)
*2013* 3.197 MoCSoP (ES), MICAS and HPCSP/SYNASC. (RO)
*2012* 3.198 WoSS-4/CLASS (SL), C4BB4C/ISPA. (ES), EIDWT (RO), CeBPM/WISE. (CY), MICAS and WoHS/SYNASC. (RO)
*2011* 3.199 CCPI/Euro-Par. (FR), WoSS-2/SYNASC. (RO) -3/FedCSIS (PL), IDAACS (CZ), SCoDiS-LaSCoG (PL)
*2010* 3.200 CCPI/Euro-Par. (IT), WoSS-1/SYNASC. (RO), SCoDiS-LaSCoG/FedCSIS (PL)
*2009* 3.201 GPC. (CH), LaSCoG (PL), SYNASC. (RO)
*2008* 3.202 LaSCoG (PL), GridTDT-1,-2 (RO), SYNASC. (RO)
*2007* 3.203 LaSCoG (PL), SYNASC. (RO)
*2006* 3.204 ISPDC. (RO), GridTDT (RO), LaSCoG (PL), SYNASC. (RO)
*2005* 3.205 VISSAS (RO), LaSCoG (PL), SYNASC. (RO)
*2004* 3.206 SGC (RO), LaSCoG (PL), CaVIS (RO), SYNASC. (RO)
*2003* 3.207 LaSCoG (PL), CaVIS (RO), SYNASC. (RO)
*2002* 3.208 SYNASC. (RO)

### 3.3.3 Panel organizer

*2012* 3.209 Session 2.3 Interoperability between Clouds /FIA-Aalborg (DK), May 2012
3.210 Interoperability in Cloud Federation / IoS 2012 (BE), Oct 2012

### 3.3.4 Member in Conference Program Committees

*2018* 3.211 ICCS. (CH), CEBDA/IPDPS. (CA), HCW. (CA), ISPDC. (CH), GPC. (CN), 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), CANA/FedCSIS (PL), BIDMA (CA), CBDCom (CN), EDOC (SW), SACI (RO), CoDIT (GR)
*2017* 3.212 Mobile&HibridClouds track, TAPEMS, EBDMA/CCGrid. (SP), ICSOFT. (SP), EduPar&HeteroPar& LSDVE /EuroPar. (SP), CloudNG/EuroSys. (RS), ICCS. (CH), MOWU/COMPSAC. (IT), HCW. (US), ICA3PP. (FI), EDOC. (CA), HPCS. (IT), ISPA. (CN), Cloud&ServicesComputing/AINA. (TW), ISPDC. (AT), PPAM. (PL), GPC. (IT), CIT. (FI), CloudCom. - tracks Big Data; Architecture; Distributed cloud (HK), SYNASC. (RO) FTC (CA), iThings (UK), GreenCom (UK), GECON (FR), CSCS21 (RO), WCI (IN), CCNCPS (US), Automatics&Informatics (BG), CPSCom (UK), CBDCom (US), AC (PT), BCI (MK), IoTM (CZ), ICSTCC (RO), IDC (RS), FAB (AU), CANA/FedCSIS (CZ),QUDOS (IT), DewCom/MIPRO (HR), PICom (US), IEEE Mobile Cloud (US), SOSE (US), SAI (UK), CompSysTech (BG), ARMS-CC/PODC (US), HPCS/3PGCIC (SP), CloudWays (NO), ICT Innovations (MK), ICACCA (IN), RoEduNet (RO), FCST (UK), ICDCIT(IN), BIDMA(CA), ICCSS(UK), CloudTech(MA), IDAACS(RO), ScalCom(US)
*2016* 3.213 Sci.Eng.Comp. track/ICSE. (FR), IT4RIs/RTSS. (PT), CCGrid. (SA), CompArch/WICSA. (IT), HeteoPar & LSDVE & Euro-EduPar/EuroPar. (FR), ICCS. (US), CN4IoT/Eurosys. (IT), HCW. (US), BIS. (DE), COMPSAC. (US), HPCS. (AT), HPCEE/VECPAR. (PT), EDOC. (AT), TAPEMS/ICA3PP. (SP), IEEE IPCCC-CCNSPS 2016 (US), GPC. (CN), ISPDC. (CN), CloudCom. (LU), SYNASC. (RO) YSC (RU), PDCTA (SW), CPHPCA (SP), SAI (UK), SOSE (UK), ICDCIT (IN), Service Computation (MT), Mobile Cloud (UK), CloudTech (MA), Performance/FiCloud (AT), CloudScape (BE), ICCGI (SP), INTELLI (SP), ICGREEN (GR), BIDMA (CA), NAA (BG), 3PGCIC (KO), FAB (US), ScalCom (FR), i-Society (IE), IDC (FR), FTC (US), GECON (GR), FiCloud (AT), CIST (MA), AC (DE), LISS (AU), QUDOS/ICPE (DE), CF (SP), CloudCom-Asia (CN), CANA/FedCSIS (PL), RE-HPC (CN), CloudWays (AT), WCI (IN), DewCom (CA), COT (BR), MESOCA (US), PiCom(NZ), CoopIS (GR)
*2015* 3.214 C4BIE/CCGrid. (CN), MASCOTS. (US), QUDOS/FSE. (IT), LSDVE, DIHC, HeteroPar/Euro-Par. (AT), ENASE. (SP), HCW. (IN), COMPSAC. (TW), ICA3PP. (CN), GLOBECOM. (US), HPCS. (NL), GPC. (FJ), PPAM. (PL), ISPDC. (CY), CMS. (SE), CST. (CN), CloudCom. (CA), SOCA. (IT), CIT. (UK), SYNASC. (RO) Service Comp. (FR), SAI (UK), MobileCloud (US), NetSoft (UK), INTELLI (MT), ICCGI (MT), BIS (PL), SOSE (US), BCI (RO), CSCS20 (RO), CloudTech (MA), CANA (PL), WCI (IN), FiCloud (IT), IDC (PT), ICGREEN (IT), CloudScape VII (BE), ABDIS (FR), Ro-LCG (RO), 3PGCIC (PL), IDAACS (PL), Cloudnet (CA), ICA CON (HU), FAB (FR), IoTaaS (IT), AIMC (FR), Euro-EduPar (AT), MESOCA (DE), LISS (SP), FDependSys (CN), CompSysTech (IR), AC (IR), ScoDis-LasCoG/ICTInnovation (MK), CN4IoT, SeaWave&CloudWay/ESSOC (IT), CLASS (SLO), EnCASE (IT), CF (IT), PiCom (UK), IoTaaS (IT), E-MuCoCos (PT) ModelsWard (FR), ICDCIT (IN), CLOSER (PT), ICEIS (SP)
*2014* 3.215 Cluster. (SP), FedICI&DIHC&LSDVE&TASUS&HeteroPar/Euro-Par. (PT), C4BIO&C4BIE/CCGrid. (US), HCW. (US),

ENASE (ES), ISPA (IT), BIS (CY), CCA (IN), HPCS (IT), CMS/DEXA (DE), ICA3PP (CN), MDHPCL/MODELS (SP), CloudCom (SG), ISPDC (FR), SYNASC (RO), ICDCIT (IN), CLOSER (SP), ModelsWard (PT), IEEE MobileCloud (UK), SOSE (UK), IDC (SP), MobiWIS (SP), SERVICE (IT), INTELLI (IT), CCIT (KO), CIST (MO), ABDIS (MK), KSEM (RO), SAI (UK), LISS (US), INCoS (IT), IEEE Cloudnet (LU), MobiWIS (SP), EnCASE (DE), AC (PO), MESOCA (CA), IoTaaS (IT), PICom (CN), RoEduNet/RENAM (MOL), BigdataFromSpace (IT), CIST (MA), CompSysTech (BG), SeaClouds/ESSOC (UK), NordiCloud (SE), BiDS (IT), WCI (IN), CloudMDE (SP)

*2013* 3.216 CCGrid (NL), HeteroPar, FedICI&DIHC/EuroPar (DE), HCW (IR), ENASE (FR), HPCS (FI), ISPA (AU), ICA3PP (IT), CMS/DEXA (CZ), ICEIS (FR), GPC (KO), PPAM (PL), Applied Computing (US), ICCP (FR), CGC (DE), ISPDC (RO), SYNASC (RO), CIT (AU), MobileCloud (US), SOSE (US), CLOSER (DE), RoEduNet (RO), IDC (CZ), ABDIS (IT) , ICCGI (FR), CSCS19 (RO), PaCT (RU), CyPhySyA (DE), BCI (GR), SAI (UK), INTELLI (IT), IDAACS (DE), MESOCA (NL), Service Computation (SP), ADMNET (JP), BigData (US), 3PGCIC (FR), LISS (CN), NordiCloud (FI), CompSysTech (BG), CLOUSO (SP), RoEduNet (RO), DISCCO (PT), CSE (AU), AIIT (RS), CloudCom-Asia (CN)

*2012* 3.217 Doct.Symposium & NordiCloud/ECSA (FI), HeteroPar/Euro-Par (GR), ICA3PP (JP), AINA (JP), HCW (CN), ENASE (PL), HPCS (SP), ICEIS (PT), CISIS (IT), ISPDC (DE), GPC (CN), IoTCloud/CloudCom (CN), SYNASC (RO), BCI (SB), ICCGI (IT) , ABDIS (PL), BalticDB&IS (LT), CLOSER (PT), EWDCC (RO), INTELLI (FR), IDC (IT), ePaMuS (IT), CloudCP (SW), HAC (SP), CMS (IT), SWISM (IT), CIST (MA), BIC-TA (MAL), MESOCA (IT), ICCGI (IT), 3PGCIC (CA), LISS (CN), MILES (RO), SeDiS (RO), CompSysTech (BG), CSE (CY), RO-LCG (RO), APPL-COMP (SP), HiperGrid (RO), A4C (IT), IDCS (CN)

*2011* 3.218 HeteroPar/Euro-Par (FR), AINA (SG), HCW (US), ICA3PP (AUS), ICAART (IT), ICEIS (CN), GPC (FI), CIT (CY), ISPDC (RO), PPAM (PL), Cloud4SOA workshop/CloudCom (GR), SYNASC (RO), ICDCIT (IN), CICIS (KO), LISS (CH), IDC (NL), IDAACS (CZ), ICCGI (LU), 3PGCIC (SP), PaCT (RU), NBIS (AL), HPAGC (IN), WICT (IN), EVACCS (CN), HPGC (KO), ServiceWave/Cloud (PL), CANA (PL), SCOPIN (AL), CompSysTech (A), RoEduNet (RO), MedDecSup (RO), SOCASE (PL), TARDIS (AU), CODS (DE), SocPros (IN), IOCIT (MAL),

*2010* 3.219 Cluster (GR), Doct.Symp./ECSA (DK), HeteroPar/Euro-Par (IT), HCW (US), ICA3PP (KO), HPCS (FR), GPC (TW), ICEIS (PT), ISPDC (TR), CIT (UK), SYNASC (RO), ADiS (PL), ICAART (SP), ICCGI (SP), SWISM (PL), IDC (MOR), FC (TW), ICAdET (RO), CODS (CN), 3PGCIC (JP), PARCA (RU), ICCC (RO), SOCASE (CAN), CANA (PL), eGov Summit (BG), EDGeS (NL), ICCP (RO), MiDiS (JP), AG (US), INCoS (GR), SOCMAS (US), SEE (US)

*2009* 3.220 HeteroPar/Euro-Par (NL), HCW (IT), HPCS (DE), GPC (SW), ICEIS (IT), ICETE (IT), PPAM (PL), ISPDC (PT), GADA (PO), SYNASC (RO), ICAART (PO), ICCGI (FR), CODS (DE), IDAACS (IT), PaCT (RUS), EMES (RO), HiperGrid (RO), CSCS17 (RO), HSSS (GR), BCI (GR), KEPT (RO), ICE-B (IT), SACI (RO), CSE (CA), DAIT (UK), ICCP (RO), AG (USA)

*2008* 3.221 HeteroPar/Cluster (JP), HPCS (CY), CIC (US), ICEIS (SP), ISPDC (PL), GADA (MEX), SYNASC (RO), ANSS (CAN), ICCC (RO), SIWN (UK), CSE (BR), IDC (IT), CANA (PL), CODS (UK), CONTI (RO), ICDCIT (IN), ICCP (RO), KGCM (US), NCUS (CN), HyperGrid (RO), ICVL (RO), NCUS (CN)

*2007* 3.222 HeteroPar/Cluster (USA), HPCS (CZ), ICPADS (TW), ICEIS (SP), PPAM (PL), GADA (SP), CIC (USA), SYNASC (RO), ANSS (USA), ICCGI (FR), PaCT (RU), SMO (EG), ICTIS (MO), IDAACS (DE), SACCS (RO), IDC (RO), SCG (CAN), CANA (PL), EUC (TW)

*2006* 3.223 HETEROPAR/Cluster (SP), ICPADS (USA), HPCS (DE), ICEIS (CY), CIC (USA), ISPDC (RO), SYNASC (RO), ICCC (RO), ICCGI (RO), ADVIS (TK), WSGA (USA), ICCP (RO), ICVL (RO), NCUS (KO), HiPC-06 (IND), KICSS (THAI), CONTI (RO), CCCT (US), LASCOG (PL), FIMCSIT (PL)

*2005* 3.224 CIC (US), ISPDC (FR), PPAM (PL), SYNASC (RO), SOFA (HU), IADIS (SP), ICTIS (MOR), WAGSSDA (NO), CCCT (US), ESM (LAT), ABC (US), LASCOG (PL), PARNUM (SI), ICCOMP (GR), HPC&S (LAT), NCUS (JP), CNIV (RO)

*2004* 3.225 ISPDC (IR), SYNASC (RO), ADVIS (TUR), SCI (US), CCCT (US), CONTI (RO), ICCC (RO), CNIV (RO)

*2003* 3.226 ISPDC (SI), PPAM (PL), SYNASC (RO), SCI (US), CNIV (RO)

*2002* 3.227 SYNASC (RO)

*2001* 3.228 SYNASC (RO)

### 3.3.5 Member in PhD thesis defence committees

*2017* 3.229 Univ. Politehnica Bucharest (RO), Univ. Pavia (IT)

*2016* 3.230 West Univ. Timisoara (RO), Univ. Politehnica Bucharest (RO), Univ. Politehnica Timisoara (RO), Politehnico di Milano (IT), Univ. York (UK)

*2015* 3.231 West Univ. Timisoara (RO), 2 x Johannes Kepler Univ. of Linz (AT), Univ. Pisa (IT)

*2014* 3.232 Univ. Politehnica Timisoara (RO), Univ. Babes-Bolyai Cluj-Napoca (RO)

*2013* 3.233 2 x West Univ. Timisoara (RO), 2 x Univ. Politehnica Timisoara (RO), Univ. Politehnica Bucuresti (RO), Univ. Tehnica Cluj- Napoca (RO), Univ. Carlos III of Madrid (SP)

*2012* 3.234 West Univ. Timisoara (RO), Univ. Politehnica Timisoara (RO), Ss. Cyril and Methodius Univ. Skopje (MK)

*2011* 3.235 West Univ. Timisoara (RO), Univ. Politehnica Timisoara (RO), Univ. Tehnica Cluj- Napoca (RO), Univ. College Cork (IR)

*2010* 3.236 2 x Gh. Asachi Technical Univ. Iasi (RO)

*2009* 3.237 West Univ. Timisoara (RO), 3 x Univ. Politehnica Timisoara (RO), Univ. Pisa (IT)

*2008* 3.238 2 x Univ. Politehnica Bucuresti (RO)

*2006* 3.239 West Univ. Timisoara (RO), Univ. College Cork (IR)

### 3.3.6 Consolidation of research teams

3.240 attract R&D funds for Institute e-Austria Timisoara, 2002-present for 5+ team members

## 3.4 Research grants and attracted R&D funds for local teams

### 3.4.1 International research grants

#### Project coordinator

*2012* 3.241 FP7-RegPOT HOST: High Performance Computing Service Center, 2012-2014, 2 226 272 Euros/UVT
*2010* 3.242 FP7-ICT SPRERS: Strengthening the Participation of Romania at European R&D in Software Services, 2010-2011, 414415 Euros/UVT

#### Scientific coordinator

*2010* 3.243 FP7 mOSAIC: Open-source API and Platform for multiple Clouds, 2010-2013, 374 550 Euros/IeAT

#### Coordinator of bilateral projects

*2009* 3.244 SciCom: Scientific Computing Platform. Collaboration Romania-Austria, 2009-2010, 22 000 Lei/UVT
*2008* 3.245 AEMTIA: Automated Exploration of Mathematical Theories for Industrial Applications, Institute e-Austria Timişoara & RISC Linz, 2008-2011, 156 000 Euros/IeAT
*2006* 3.246 COBURDIS: Collaboration Romania-Ukraine in Distributed Computing, 2006-2007, 11 000 Lei/UVT
*2002* 3.247 Automated verification of software and hardware components, IeAT & RISC Linz, 2002-2005, 413 350 Euros/IeAT
*1996* 3.248 Entwicklung paralleler Algorithmen für die Lösung steifer Differentialgleichungen, June 1996, University Ruprecht-Karls Heidelberg,

#### Local team coordinator in collaborative projects

*2017* 3.249 InnoReg-Danube InnoHPC, 2017-2019, 131 000 Euros/UVT
*2015* 3.250 H2020-EINFRA VI-SEEM, 2015-2018, 148 750 Euros/UVT
3.251 H2020-EINFRA SESAME NET, 2015-2017, 114 062 Euros/UVT
3.252 H2020-ICT CloudLightning, 2015-2018, 283 750 Euros/IeAT
3.253 H2020-ICT DICE, 2015-2018, 295 375 Euros/IeAT
*2014* 3.254 CIP Share-PSI 2.0, 2014-2016, 20 000 Euros/UVT
3.255 COST NESUS, 2014-2017, 15 000 Euros/UVT
*2013* 3.256 FP7 SPECS, 2013-2016, 220 800 Euros/IeAT
3.257 FP7 SCAPE, 2013-2014, 90 880 Euros/UVT
*2012* 3.258 FP7 MODAClouds, 2012-2015, 355 136 Euros/IeAT
3.259 CIP SEED, 2012-2014, 115 722 Euros/IeAT
*2010* 3.260 FP7 HP-SEE, 2010-2013, 27 700 Euros/UVT
*2009* 3.261 COST ComplexHPC, 2009-2013, 15 000 Euros/UVT
*2008* 3.262 FP7 DEHEMS 2008-2011, 156 492 Euros/IeAT
3.263 FP7 SEE-GRID-SCI, 2008-2010, 24 346 Euros/UVT
*2006* 3.264 FP6 SCIEnce, 2006-2011, 208 560 Euros/IeAT

#### Member

*2010* 3.265 FP7 EGI-Inspire, 2010-2014
*2008* 3.266 FP7 EGEE-3, 2008-2010
*2007* 3.267 FP6 SEE-GRID-2, 2007-2008
3.268 FP6 EGEE-2, 2007-2008
*2005* 3.269 FP6 VISP, 2005-2009
3.270 FP6-ERG5 SysteMaThEx, 2005-2007

### 3.4.2 International funds, national execution

#### Project coordinator

*2009* 3.271 InfraGrid: Service-oriented Grid Infrastructure, EC Structural Funds, 2009-2011, 1 911 601 Lei/UVT
*2008* 3.272 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* 3.273 Distributed environments for solving scientific problems, 2000-2001, International Bank for Reconstruction and Development & CNCSIS, 10 000 USD/UVT.

### 3.4.3 National research grants

#### Project coordinator

*2012* 3.274 AMICAS: Automated Management in Cloud, 2012-2016, 1 348 000 Lei/UVT
*2006* 3.275 GRAI: Grid computing and Artificial Intelligence, 2006-2008, 472 500 Lei/UVT
*2005* 3.276 ProWest: Promotion of the research activities in computer science in West Romania, 2005-2007, 180 000 Lei/IeAT& UVT& UPT
3.277 P-systems: Models and implementations for simulating P systems, 2005-2006, 3 000 Lei/IeAT
*2004* 3.278 CompGrid: high performance computing on wide area networks, 2004-2006, 575 000 000 Lei/UVT
*2002* 3.279 High performance computing technologies based on grid and cluster architectures, 2002-2003, 70 000 000 Lei/UVT
*1998* 3.280 Parallel and distributed processing in graphics, image processing and computational geometry, 1998-1999, 22 000 000 Lei/UVT

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

3.281 CloudLightning+, 2016-2018, 96 005 Lei/IeAT
3.282 DICE+, 2016-2018, 99 939 Lei/IeAT
3.283 MODAClouds-RO, 2013-2015, 494 280 Lei/IeAT
3.284 mOSAIC-RO, 2011-2013, 471 000 Lei/IeAT
3.285 DEHEMS-RO, 2009-2010, 214 223 Lei/IeAT

**Local team coordinator in collaborative projects**

*2005* 3.286 MedioGrid: Parallel and distributed image processing on grid architecture of geographical and environment data, 2005-2008, 124 195 Lei/UVT
3.287 GridMOSI: Virtual organization based on Grid technology for high performance modelling, simulation, and optimization, 2005-2008, 190 000 Lei/UVT
3.288 NanoSim: Transport phenomena and structure formation at the micro/nanometer scale in biomedicine and materials science, 2005-2008, 118 000 Lei/IeAT
3.289 ForMol: Computational formalism inspired by Molecular Biology, 2005-2008, 180 000 Lei/IeAT

**Member**

*2008* 3.290 ASISTSYS: Integrated System of Assistance for Patients with Severe Neuromotor Affections, 2008-2011
3.291 SCIPA: Semantic software services for collaboration and inter-operability for adaptive business processes, 2008-2011
*2007* 3.292 SIPADOC: Integrated system for the digitization and capitalization of the document's cultural patrimony, 2007-2010
3.293 PEGAF: Grid-based experimental platform for developing applications based on workflows and with dynamic allocation of resources,2007-2010
*2006* 3.294 SIAPOM: Integrated System for Analysis and Multidisciplinary Design Optimisation, 2006-2008
*2005* 3.295 SINRED: National management system for digital resources in science and technologies based on Grid architectures, Oct 2005- Sept 2008
3.296 MindSoft: Multi-agent models and soft computing in knowledge engineering, 2005-2007
*2001* 3.297 Distributed models for solving complex problems, 2001-2002.
*2000* 3.298 Center for advanced technologies in computer science, 2000-2001.
*1998* 3.299 Intelligent interfaces for nonlinear problems, 1998-2000.
*1997* 3.300 Pilot center for teaching informatics, 1997-2002
3.301 Computational geometry in movement planning, 1997.
3.302 Computer program for the strength to the seismic loads, 1997.
*1996* 3.303 Biographic methods for the study of nonlinear and unelastic behaviour of steel structures under seismic actions, 1996
*1995* 3.304 Intelligent environments for scientific computing, 1995-2002
3.305 Computing methods for seismic actions on steel structures, 1995.
*1993* 3.306 Coupling symbolic and numeric calculus, 1993-1994.

## 3.5 Activity impact

### 3.5.1 Selected citations after 01.01.2000

(1) 103 2017: ISTB, RG1, 10.1007/s10586-017-1248-y, 10.1007/978-981-10-6620-7_64, CloudWays, 10.1109/CLOUD.2017.89, 10.26483/ijarcs.v8i7.4540, 10.1016/j.future.2017.09.020, 10.1109/TMSCS.2017.2675888, 10.1007/978-3-319-52181-7_8, 10.22161/ijaers.4.1.28, 2016: CAI:1335-9150/3546, 10.1088/1757-899X/225/1/012184, 10.1109/ICITST.2016.7856739, 10.1145/3008167.3008173, 10.1186/s40411-016-0033-6, 10.1080/23302674.2016.1242819, 10.1007/978-3-319-47221-8_4, 10.7160/aol.2016.080305, 10.1109/FiCloud.2016.56, 10.1007/s00607-014-0421-x, 10.1057/9781137324245_17, 10.1109/NOMS.2016.7502858, 10.1007/s11761-016-0195-4, 10.1109/MobileCloud.2016.20, 10.1002/9781118821930.ch14, 10.11591/ijece.v6i2.8270, 10.1007/978-3-319-38904-2_22, 10.12694/scpe.v17i2.1157, USENIX-8, 978-3-86309-399-0, arXiv:1602.02698v1, 10.1016/j.csi.2016.02.002, 10.1109/TCC.2016.2537333, 2015: 10.1109/UCC.2015.56, 10.1016/j.future.2015.07.019, 10.1109/CICN.2015.179, 10.1109/CloudCom.2015.61, 10.1186/s13677-016-0054-z, 10.1016/j.scico.2015.09.004, 10.1016/j.procs.2015.11.066, 10.1007/978-3-319-25043-4_8, 10.1109/AICCSA.2015.7507130, 10.14445/22312803/IJCTT-V27P110, 10.1007/973-3-319-19387-8_105, 10.1109/MIPRO.2015.7160280, 10.1016/j.simpat.2015.04.002, 10.1016/j.future.2014.12.006, 10.1002/cpe.3012, arXiv:1501.01323, 10.1007/978-3-319-14886-1_26, 10.5815/ijeme.2015.04.04, 10.1109/MIPRO.2015.7160281, 10.1109/CLOUD.2015.16, 10.1007/s13369-015-1703-0, 10.1016/j.procs.2015.04.063, 10.5220/0005541203310342, 10.4018/978-1-4666-8339-6.ch002, 2014: 10.1186/s13174-014-0017-x, 1617-5468, 10.1177/0954405413506197, 10.1007/978-3-319-14313-2_32, 10.1007/978-3-662-45550-0_38, 10.1016/j.diin.2014.08.002, 10.1109/COMPSACW.2014.85, 10.1016/j.simpat.2014.07.007, 10.1186/s13677-014-0009-1, 10.1002/cpe.3293, 10.1007/978-3-319-05506-0_5, 10.1007/s10515-014-0143-5, 10.5121/ijnsa.2014.6103, 10.1007/978-1-4614-7535-4_22, 10.1145/2593512, 10.1007/978-1-4471-6452-4_11, 10.1007/978-1-4471-6452-4_9, 10.1109/MOSOCA.2014.13, 1613-0073:1242, 10.1109/INFCOMW.2014.6849160, 10.5220/0004844400950102, 10.1109/SOSE.2014.26, 2013: 10.1007/978-3-319-00557-7_34, 10.1007/978-3-642-40651-5_6, 10.1186/2192-113X-2-22, 10.1504/IJSPM.2013.059418, 10.1007/978-3-642-45364-9_18, 10.5220/0004370603210330, DL.ACM.2555535, 10.1145/2541583.2541585, 10.1109/CLEI.2013.6670667, 10.1109/SOCA.2013.30, 10.1016/j.future.2013.10.021, 10.3923/jai.2013.68.74, 1613-0073:1118, 10.1109/CloudCom.2013.130, 10.1145/2490257.2490290, 10.1145/2513534.2513541, hdl.handle.net/11343/38234, 2012: 10.1016/j.future.2012.12.012, 10.1109/ICAICT.2012.6398496, 10.1016/j.future.2012.09.006, 10.1145/2377836.2377841, 978-87-643-1014-6, 10.1145/2361999.2362011, 978-960-9416-05-4,
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Special mentioning:10.1109/TCC.2014.2321168, Tbl.19, Author 8th/World/Cloud computing: Petcu, D

| Where | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | Registered |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Displayed above | 4 | 222 | 231 | 247 | 204 | 139 | 103 | 43 | 40 | 31 | 31 | 23 | 15 | 11 | 3 | 7 | 0 | 1 | 3 | 1358 |
| Web of Science | 5 | 46 | 69 | 79 | 58 | 51 | 35 | 16 | 11 | 17 | 14 | 7 | 11 | 6 | 5 | 6 | 6 | 5 | 16 | 481 |
| Scopus | 17 | 147 | 193 | 202 | 234 | 176 | 130 | 46 | 31 | 20 | 31 | 23 | 11 | 12 | 7 | 5 | 6 | 8 | 5 | 1307 |
| Research Gate | 1 | 155 | 239 | 271 | 265 | 271 | 193 | 98 | 67 | 57 | 93 | 50 | 45 | 34 | 18 | 7 | 9 | 17 | 23 | 1957 |
| Google Academic | 20 | 296 | 339 | 387 | 385 | 317 | 247 | 112 | 92 | 60 | 81 | 53 | 49 | 41 | 28 | 18 | 13 | 24 | 29 | 2672 |

Top papers (40): SC- Scopus, GS - Google Academic, UP - Displayed above

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ref | 122 | 1 | 100 | 102 | 103 | 86 | 6 | 44 | 177 | 8 | 295 | 101 | 160 | 126 | 7 | 115 | 10 | 176 | 152 | 106 | 33 | 301 | 297 | 288 | 14 | 135 | 136 | 12 | 149 | 24 | 170 | 125 | 158 | 299 | 287 | 17 | 148 | 166 | 124 | 127 |
| GS | *192* | *160* | *126* | *104* | *88* | *83* | *81* | *77* | *73* | *68* | *68* | *66* | *62* | *55* | *50* | *45* | *40* | *38* | *34* | *33* | *30* | *30* | *26* | *24* | 21 | 21 | 20 | 19 | 19 | 19 | 18 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 15 | 15 |
| SC | *114* | *81* | *71* | *73* | *49* | *51* | *50* | *54* | *50* | *25* | *41* | *39* | - | *51* | *31* | *40* | 17 | *31* | *19* | 10 | *23* | - | - | - | 10 | 10 | 15 | 13 | 5 | 11 | 13 | 10 | 9 | - | - | 4 | 6 | 8 | 11 | 11 |
| UP | *125* | *103* | *83* | *50* | *57* | *61* | *58* | *45* | *38* | *48* | *56* | *25* | *30* | *22* | *32* | *20* | *20* | *19* | 9 | 10 | *25* | 14 | 10 | 12 | 7 | 2 | 15 | 19 | 12 | 3 | 12 | 6 | 11 | 7 | 3 | 2 | 6 | 3 | 5 | 12 |

### 3.5.2 General indicators

| What | Google Academic | ResearchGate | Displayed above | Scopus/Mendeley | CrossRef | Web of Science |
|---|---|---|---|---|---|---|
| Articles | 296 | 275 | 317 | 161 | 114 | 99 |
| Citations | 2672 | 1957 | 1358 | 1307 | 670 | 481 |
| h-index | 24 | 21 | 19 | 18 | 14 | 11 |

**Displayed above:** articles with DOI: 140 and with ids in WoS: 98

**i10-index:** Google Academic: 60

**publons data:** 266 confirmed reviews for journal papers from 2012 until now, 3 awards (top 1% in Computer Science & Mathematics, 3rd in Romania), top 10 female reviewers

**Publish or Perish data:** Papers: 296 Citations: 2655 Years: 26 Cites_Year: 102.12 Cites_Paper: 8.97 Cites_Author: 1125.08 Papers_Author: 145.06 Authors_Paper: 3.31 g_index: 44 hc_index: 18 hI_index:6.13 hI_norm: 15 AWCR: 383.64 AW_index: 19.59 AWCRpA: 150.77 e_index: 32.63 hm_index: 14.95 QueryDate: 2018-01-05 ECC: 2656 Cites_Author_Year: 43.27 hI_annual: 0.58 h_coverage: 61.8 g_coverage: 74.7 star_count :10 year_first: 1992 year_last: 2018

**Others:** 109 papers with 1 author (75:2, 46:3, 55:4, 42:5, 31:6, 38:7, 2:8)

### 3.5.3 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: 2,233.78; A*+A+B: 1,760.35

**Academic perspective:**
D: 1,036.31; No. projects in D: 65

# Contents