

Curriculum vitae and scientific activity

Dana PETCU

September 2024



Chapter 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

As author – all fields: [Scopus 6603604868](#), [WoS C-2889-2011](#), [Google Scholar 7.-VBTkAAAAJ](#), [ResearchGate Dana.Petcu](#), [ORCID 0000-0002-4773-770X](#), [Mendeley dana-petcu](#),
As author – domain specific: [ACM Digital Library 81312484560](#), [DBLP Petcu:Dana.html](#), [Microsoft Academic 931727](#), [zb-MATH petcu.dana](#),
As reviewer: [publons 1199003](#)

Experience

Education

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

Research experience

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

Teaching experience

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

Positions

West University of Timișoara (UVT)	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	International Relationships, UVT	2016-2018
	Research and Innovation, UVT	2018-2020
Dean	Director of University Council for PhD Studies, UVT	2020-2021
	Faculty of Mathematics and Computer Science, UVT	2021-2024
Director	Institute for Advanced Environmental Research	2024-present
	Institute e-Austria Timișoara, IeAT	2002-present
	Computer Science Department	2008-2011
	Master studies in Software Engineering, UVT	2010-present
	Computer Science Department, UVT	2008-2011
	Undergraduate studies on Computer Science, UVT	2004-2008
	PhD studies in Computer Science, UVT	2012-2016
President	CSCCU - Scientific Council for Research and Creation of the University, UVT	2013-2014
	Senate Commission for International Relationships, UVT	2013-2015
	Senate Commission for PhD and Postdoc studies, UVT	2020

Expert evaluator

European Commission FP6-IST, FP7-ICT/Capacities/People, ESF, INTAS, H2020-ICT/INFRA, HE-CL4/INFRA
Foreign countries (RDI) BE, BG, CL, CZ, GE, HU, IE, IT, NO, PL, PT, RS, RU
Romanian CNCISIS (2001-2004), CEEX (2005-2007), PNII (2008-2015), PNIII (2017-2021)
PhD defence committees 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, 2011 – 2015

OW2, open source community, 2013 – present

Coordination of the collaboration activities of Cloud related EC-funded projects: [Novel approaches and technologies for Cloud resource and service management \(NATRES\)](#) - 2017

IEEE Computer Society Special technical Community on Dew Computing, ([DewCom STC](#)), 2018 – present

Domain Expert for Romanian Delegations at European forums

FP7-ICT Committee (2007-2013), Committee for CIP (2007-2008), COST programme - ICT Domain (2007-2008)
e-IRG (2008-2015), e-Infrastructure Policy Forum (2011-2013), PRACE Council (2014-2018)

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) and Article Influence Score (AIS) as registered in the year of publication. Categories according to the IF or AIS: Q1:■ (best 25%), Q2:■ (best 50%), Q3/4:■ in WoS. Number of citations (cits:) as exposed in section 4.1 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■, AIS: 0.562■, cits:189)
- 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*, Computer Standards & Interfaces 34, 2012, 493-508, WoS: 000306771800005, doi: [10.1016/j.csi.2011.10.010](#) (IF: 0.978■, AIS: 0.41■, cits: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■, AIS: -, cits:5)
- 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■, AIS: -, cits:12)
- 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■, AIS: -, cits:3)
- 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■, AIS: -, cits:131)
- 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■, AIS: -, cits:66)

Springer journals

- 2019 2.8 I. Drăgan, G. Iuhasz, D. Petcu, A Scalable Platform for Monitoring Data Intensive Applications, Journal of Grid Computing, September 2019, Volume 17, Issue 3, pp 503–528, WoS: 000487125900005 doi: [10.1007/s10723-019-09483-1](#) (IF:2.095■, AIS:0.482■, cits:5)
- 2014 2.9 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■, AIS:0.366■, cits:116)
- 2013 2.10 V. Stankovski, D. Petcu, *Developing a Model Driven Approach for engineering applications based on mOSAIC. Towards Sharing Elastic Components in the Cloud*, Cluster Computing 17 (1), 2013, 101-110, WoS: 000333111000006, doi: [10.1007/s10586-013-0263-x](#) (IF: 0.949■, AIS:0.421■, cits:5)

- 2012 2.11 N.M. Calcavecchia, B.A.Caprareescu, 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](https://doi.org/10.1007/s00607-012-0198-8) (preliminary: Technical Report 2012.5 [275]) (IF: 0.807_■, AIS: 0.643_■, cits:50)

Other journals with IF and indexed in WoS

- 2015 2.12 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](https://doi.org/10.1002/cpe.3175) (IF: 0.942_■, AIS: 0.338_■ cits:2)
- 2014 2.13 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](https://doi.org/10.1109/JSTARS.2014.2320896) (IF: 3.026_■, AIS: 0.821_■ cits:38)
- 2.14 J. Južna, P. Češarek, D. Petcu, V. Stankovski, *Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC*, Computing in Science & Engineering 16 (4), 68-77, 2014, WoS: 000337263400008, doi: [10.1109/MCSE.2013.135](https://doi.org/10.1109/MCSE.2013.135) (IF: 1.248_■, AIS: 0.725_■, cits:3)
- 2010 2.15 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](https://doi.org/10.1007/s12145-010-0065-0) (IF: 0.657_■, AIS: 0.121_■, cits: 8)
- 2006 2.16 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, doi: [10.15837/ijccc.2006.1.2270](https://doi.org/10.15837/ijccc.2006.1.2270) (IF: 1.374_■, AIS: 0.159_■)
- 2005 2.17 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, WoS: 000232207600007, doi: [10.1080/00207160512331331174](https://doi.org/10.1080/00207160512331331174), Taylor & Francis Ltd (IF: 0.254_■, AIS: -, cits:5)

2.1.2 Papers that are WoS related

Papers in Springer LNCS series with IF

- 2005 2.18 D. Petcu, M. Paprzycki, M. Ganzha, *Clustering Multiple and Cooperative Instances of Computational Intensive Software Tools*, LNCS 3606, ISSN 0302-9743, 452-456, WoS: 000232251100040, doi: [10.1007/11535294_40](https://doi.org/10.1007/11535294_40), 2005 (IF: 0.402_■, AIS: -, cits:1)
- 2.19 C. Bonchiş, G. Ciobanu, C. Izbaşa, D. Petcu, *A Web-Based P Systems Simulator and Its Parallelization*, LNCS 3699, ISSN 0302-9743, 58-69, WoS: 000233391700007, doi: [10.1007/11560319_7](https://doi.org/10.1007/11560319_7), 2005 (IF: 0.402_■, AIS: -, cits:5)
- 2004 2.20 D. Petcu, D. Dubu, M. Paprzycki, *Towards a Grid-aware Computer Algebra System*, LNCS 3036, ISSN 0302-9743, 490-495, 2004, WoS: 000222043200073, doi: [10.1007/978-3-540-24685-5_73](https://doi.org/10.1007/978-3-540-24685-5_73), (IF: 0.513_■, AIS: -)
- 2.21 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](https://doi.org/10.1007/978-3-540-30218-6_33), 215-223, 2004 (IF: 0.513_■, AIS: -, cits:1)
- 2002 2.22 D. Petcu, H. Popa, D. Tepeanu, *A user-level interface for clustering mathematical software kernels*, LNCS 2336, ISSN 0302-9743, WoS: 000181350300017, doi: [10.1007/3-540-47840-X_17](https://doi.org/10.1007/3-540-47840-X_17), 2002, 175-182 (IF: 0.515_■, AIS: -)
- 2.23 D. Petcu, *Solving large systems of differential equations with PAVIS*, LNCS 2328, ISSN 0302-9743, 2002, 437-445, WoS: 000180067200048, doi: [10.1007/3-540-48086-2_48](https://doi.org/10.1007/3-540-48086-2_48), (IF: 0.515_■, AIS: -, cits:1)
- 2001 2.24 D. Petcu, *Numerical Solution of ODEs with Distributed Maple*, LNCS 1988, 0302-9743, 2001, 666-674, WoS: 000174201600079, doi: [10.1007/3-540-45262-1_79](https://doi.org/10.1007/3-540-45262-1_79) (IF: 0.415_■, AIS: -, cits:3)
- 2.25 D. Petcu, *Solving initial value problems with parallel Maple processes*, LNCS 2150, ISSN 0302-9743, 2001, 926-934, doi: [10.1007/3-540-44681-8_129](https://doi.org/10.1007/3-540-44681-8_129) (IF: 0.415_■, AIS: -, cits:2)
- 2000 2.26 D. Petcu, *PVM Maple: A Distributed Approach to Cooperative Work of Maple Processes*, LNCS 1908, ISSN 0302-9743, 2000, 216-224, WoS: 000171904500031, doi: [10.1007/3-540-45255-9_31](https://doi.org/10.1007/3-540-45255-9_31) (IF: 0.39_■, AIS: -, cits:5)
- 1999 2.27 D. Petcu, *Solving Initial Value Problems with a Multiprocessor Code*, LNCS 1662, ISSN 0302-9743, 1999, 452-466, WoS: 000165174100047, doi: [10.1007/3-540-48387-X_47](https://doi.org/10.1007/3-540-48387-X_47) (IF: 0.872_■, AIS: -, cits:2)

Papers in journals currently indexed in WoS with AIS

- 2006 2.28 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 2.29 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, doi: [10.1155/2005/653638](https://doi.org/10.1155/2005/653638) (■, cits: 5)
- 2.30 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 2.31 D. Petcu, *A parallel algorithm for stiff ordinary differential equations*, Informatica, Vilnius, 1994, vol.5, no. 3-4, ISSN 0868-4952, doi: [10.3233/INF-1994-53-408](https://doi.org/10.3233/INF-1994-53-408), 373-384 (■)
- 1993 2.32 D. Petcu, *On the Kantorovich Hypothesis for Newton's Method*, Informatica, Vilnius, 1993, vol. 4, no. 1-2, ISSN 0868-4952, doi: [10.3233/INF-1993-41-213](https://doi.org/10.3233/INF-1993-41-213), 188-198 (■, cits: 3)

Papers in journals currently indexed in WoS with IF

- 2014 2.33 V.I. Munteanu, C. Sandru, D. Petcu, *Multi-cloud resource management: cloud service interfacing*, J. Cloud Computing: Advances, Systems & Applications, 2014, 3:3, ISSN 2192-113X, WoS: 000215563500003, doi: [10.1186/2192-113X-3-3](https://doi.org/10.1186/2192-113X-3-3) (cits: 38)
- 2013 2.34 D. Petcu, B. Di Martino, S. Venticinquè, 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 2 (1), 2:12, Springer, 2013 ISSN: 2192-113X, WoS: 000215562800012, doi: [10.1186/2192-113X-2-12](https://doi.org/10.1186/2192-113X-2-12) (cits: 102)

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

- 2021 2.35 D. Kimovski, R. Mathá, G. Iuhasz, F. Marozzo, D. Petcu, R. Prodan, *Autotuning of exascale applications with anomalies detection*, Frontiers in Big Data, Oct 2021, vol. 4, 101-115, eISSN 2624-909X, WoS: 000891537300001, doi: [10.3389/fdata.2021.657218](https://doi.org/10.3389/fdata.2021.657218) (cits: 2)
- 2.36 D. Petcu, *Service Deployment Challenges in Cloud-to-Edge Continuum*, Scalable Computing: Practice and Experience, Vol. 22, issue 3, 313-320, Nov 2021, WoS: 000721262900004, doi: [10.12694/scpe.v22i3.1941](https://doi.org/10.12694/scpe.v22i3.1941) (cits: 5)

- 2020 2.37 T. Trieu, D. Petcu, Building a hierarchy of user's needs for learner-centered education applications, International Journal of Computer Science and Network Security, 2020, vol. 20, no. 8, 119-124, WoS: 000577887900012, doi: [10.22937/IJCSNS.2020.20.08.12](https://doi.org/10.22937/IJCSNS.2020.20.08.12)
- 2015 2.38 D. Petcu, G. Iuhasz, D. Pop, D. Talia, J. Carretero, R. Prodan, T. Fahringer, I. Grasso, R. Doallo, M.J. Martín, B. B. Fraguera, R. Trobec, M. Depolli, F. Almeida Rodriguez, F. de Sande, G. Da Costa, J.-M. Pierson, S. Anastasiadis, A. Bartzokas, C. Lolis, P. Gonçalves, F. Brito, N. Brown, *On Processing Extreme Data*, Scalable Computing: Practice and Experience, vol. 16, issue 4, 2015, 467-489, WoS: 000371914800009, doi: [10.12694/scpe.v16i4.1134](https://doi.org/10.12694/scpe.v16i4.1134) (cits: 3)
- 2014 2.39 D. Petcu, A.V. Vasilakos, *Portability in Clouds: Approaches and Research Opportunities*, Scalable Computing: Practice and Experience, Vol 15, Issue 3, 2014, 251-270, WoS: 000420411800005, doi: [10.12694/scpe.v15i3.1019](https://doi.org/10.12694/scpe.v15i3.1019) (cits: 71)
- 2012 2.40 D. Petcu, *A Panorama of Cloud Services*, Scalable Computing: Practice and Experience 13 (4), 2012, 303-314, WoS: 000420402800004, [link](#) (cits: 4)
- 2010 2.41 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, WoS: 000420382700009, [link](#) (cits: 6)
- 2008 2.42 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, WoS: 000420375500004, [link](#)
- 2006 2.43 D. Petcu, D. Vizman and M. Paprzycki, *Heuristic Load Balancing for CFD Codes Executed in Heterogeneous Computing Environments*, Scalable Computing: Practice and Experience 7 (2), 2006,15-23, WoS: 000420364700003, [link](#) (cits: 3)
- 2.44 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, WoS: 000420366100006, [link](#) (cits: 3)
- 2005 2.45 D.Petcu, *Speedup in solving differential equations on clusters of workstations*, International Journal Computational Science and Engineering, Vol.1, No.2/3/4, 2005, Inderscience Enterprises,134-141, ISSN 1742-7185, WoS: 000213111700007, doi: [10.1504/IJCSE.2005.000213111700007](https://doi.org/10.1504/IJCSE.2005.000213111700007) (cits: 2)

2.1.3 Papers in internationally refereed journals

- 2018 2.46 S. Panica, B. Irimie, D. Petcu, *Enabling and monitoring platform for cloud-based application*, International Journal of High Performance Computing and Networking, vol. 12, no. 4, 2018, 328-338 doi: [10.1504/IJHPCN.2018.10017914](https://doi.org/10.1504/IJHPCN.2018.10017914) (cits:2)
- 2015 2.47 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: [10.14529/jsfi150201](https://doi.org/10.14529/jsfi150201) (cits:34)
- 2.48 P. Bouvry, R. Mayer, J. Muszynski, D. Petcu, A. Rauber, G. Tempesti, T. Trinh, S. Varrette, *Resilience within Ultrascale Computing System: Challenges and Opportunities from Nesus Project*, Supercomputing Frontiers and Innovations vol 2, No. 2, 46-63, 2015, doi: [10.14529/jsfi150203](https://doi.org/10.14529/jsfi150203) (cits: 1)
- 2.49 J. Carretero, S. Distefano, D. Petcu, D. Pop, T. Rauber, G. Rünger, D.E. Singh, *Energy-efficient Algorithms for Ultrascale Systems*, Supercomputing Frontiers and Innovations vol 2, No. 2, 77-104, 2015, doi: [10.14529/jsfi150205](https://doi.org/10.14529/jsfi150205) (cits: 12)
- 2012 2.50 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, doi: [10.1145/2331576.2331584](https://doi.org/10.1145/2331576.2331584), 2 2012, 43-56 (cits: 7)
- 2011 2.51 A. Carstea, M. Frîncu, G. Macariu, D. Petcu, *Validation of SymGrid-services framework through event-based simulation*, Int. J. Grid and Utility Computing 2 (1), 2011, WoS: 000212389400004, doi: [10.1504/IJGUC.2011.039979](https://doi.org/10.1504/IJGUC.2011.039979) (cits: 2)
- 2010 2.52 D. Petcu, S. Panica, M. Neagul, M. Frîncu, D. Zaharie, R. Ciorba, A. Dinis, *Earth Observation Data Processing in Distributed Systems*, Informatica 34 (2010), 463-476, [link](#) (cits: 11)
- 2008 2.53 D. Petcu, *Teaching Grid Technologies to PhD Students, Part 1: Using Best Practices to Build the Course*, IEEE Distributed Systems Online, vol. 9, no. 3, 2008, art. no. 0803-o3002, doi: [10.1109/MDSO.2008.10](https://doi.org/10.1109/MDSO.2008.10) (cits: 3)
- 2.54 D. Petcu, *Teaching Grid Technologies to PhD Students, Part 2: Course Structure and Experiences*, IEEE Distributed Systems Online, vol. 9, no. 4, 2008, art. no. 0804-o4001, doi: [10.1109/MDSO.2008.13](https://doi.org/10.1109/MDSO.2008.13) (cits: 1)
- 2.55 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](#) (cits: 3)
- 2.56 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](#) (cits: 9)
- 2007 2.57 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](#) (cits: 1)
- 2.58 D. Petcu, *Grid Services for Satellite Image Processing*, Transactions on Computers, Issue 2, Vol. 6, ISSN 1109-2750, 347-354, 2007 [link](#) (cits: 2)
- 2.59 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 2.60 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](#)
- 2002 2.61 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](https://doi.org/10.1023/A:1013560909786). Extension of [62]
- 1999 2.62 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 [61]
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- 2000 2.324 D.Petcu, *Mathematics assisted by computers* (RO), Colecția Informatică, Ed.Eubeea, 2000, Timișoara, ISBN 973-9479-13-8.
- 1999 2.325 D.Petcu, L.Cucu, *Computer Graphics* (RO), Tipografia Universității Timișoara, 1999.
- 1998 2.326 O. Dogaru, Gh. Bocean, I. Despi, A. Ionică, V. Iordan, L. Luca, D. Petcu, P. Popovici, *Informatics for teachers* (RO), Editura de Vest, Timișoara, 1998, ISBN 973-36-0308-2.
- 1997 2.327 D.Petcu, *Maple, a standard for computer assisted mathematics* (RO), Tipografia Universității Timișoara, 1997.
- 1995 2.328 O.Dogaru, D.Petcu, G.Petrov, *Turbo Pascal. Exercises and problems* (RO), Timișoara, Ed. Vest, 1995, ISBN 973-36-0200-0.
- 2.329 D.Petcu, L.Cucu, *Computer graphics principles* (RO), Edit. Excelsior, Timișoara, 1995, ISBN 973-9015-51-4
- 1994 2.330 D.Petcu, *Parallel algorithms* (RO), Tipografia Universității Timișoara, 1994.

Chapter 3 Support activities

3.1 Special talks

3.1.1 Invited talks

- 2023 3.1 D. Petcu, *Cognitive Cloud Continuum : Plenary Talk*, 2023 IEEE 17th International Symposium on Applied Computational

Intelligence and Informatics (SACI), Timisoara, Romania, 2023, pp. 000011-000012, [10.1109/SACI58269.2023.10158559](https://doi.org/10.1109/SACI58269.2023.10158559),

- 2017 3.2 D. Petcu, *Mastering the heterogeneity in HPC as a Service*, NESUS Sixth Working Group, Bayreuth, Apr 2017, [link](#)
- 2016 3.3 D. Petcu, *Service Quality Assurance for Cloud-based Data-intensive Applications*, SEE Data Science Forum, Belgrad, June 2016, [link](#) and [abstract](#)
- 3.4 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 3.5 D. Petcu, *Challenges of Multi-Clouds*, AMGCC14 / ICAC 2014, London, September 2014, [link](#)
- 2012 3.6 D. Petcu, *Benefits and Barriers of Symbolic Computations on Clouds and Grids*, ACA 2012, Sofia, June 2012, [link](#)
- 2009 3.7 D. Petcu, *Challenges of Data Processing for Earth Observation in Distributed Environments*, IDC 2009 - 3rd International Symposium on Intelligent Distributed Computing, Cyprus, [link](#)
- 2007 3.8 D. Petcu, *Distributed Symbolic Computations*, ISPDC 2007, July 5-8 2007, Hagenberg, [link](#)
- 3.9 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
- 3.10 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 3.11 D. Petcu, *Software issues in solving initial value problems for ordinary differential equations*, ICCAM 2005, Baia Mare.
- 2002 3.12 D. Petcu, *Applications of multiprocessing in solving differential equations*, Simpozion Intinerant, Secțiunea Matematică Aplicată Informatică, Constanța, 16.01.2002

3.1.2 Invited keynotes

- 2019 3.13 D. Petcu, *Scalable Monitoring applied to Exascale systems, Big Data frameworks or Security as a Service*, IWSG 2019, Ljubljana, June 2019, [link](#)
- 2017 3.14 D. Petcu, *HPC as a Service: Challenges and Limitations*, ISPDC 2017, Innsbruck, July 2017, [link](#)
- 2015 3.15 D. Petcu, *Service quality assurance in multi-clouds*, GECON 2015, Cluj, Sept 2015, [link](#)
- 2012 3.16 D. Petcu, *HPC in the Cloud*, CLASS Conference 2012, Bled, Oct 2012, [link](#)
- 3.17 D. Petcu, *From a Desktop to a Supercomputer, Cluster, Grid, Cloud, InterCloud: Where my Research Code Should Run?*, ComputationWorld 2012, Nisa, July 2012, [link](#)
- 3.18 D. Petcu, *The Cloudy Sky of Programmable Infrastructures*, HEUNET workshop at SAINT 2012, 2012 IEEE/IPSJ 12th Int. Symposium on Applications & the Internet, doi: [10.1109/SAINT.2012.89](https://doi.org/10.1109/SAINT.2012.89)
- 3.19 D. Petcu, *Building European consensus on sustainability*, e-FISCAL workshop, Samos, July 2012, [link](#)
- 3.20 D. Petcu, *Open-source platform-as-a-service: requirements and implementation challenges*, High Performance Computing, Grids and Clouds, Cetraro, June 2012, [link](#)
- 2011 3.21 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 3.22 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 3.23 D. Petcu, *Grid-based Services for High Education in Earth Observation*, 4th GRID & e-Collaboration Workshop, 25-26 Feb. 2009, Frascati, [link](#)
- 3.24 D. Petcu, *e-Science and Grids*, EWM 2009, NoviSad, August 2009
- 2008 3.25 D. Petcu, *Recent experiences in Grid-enabling legacy software codes*, Alice workshop, Sibiu, 2008.
- 3.26 D. Petcu, S. Panica, *Using Desktop Grids for Evolutionary Multi-objective Optimization*, DAPSYS 2008, Debrecen.
- 2001 3.27 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, Castelvechio Pascoli, 16-21.07.2001.
- 1996 3.28 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 3.29 D. Petcu, *MODAClouds project*, European Project Space, CLOSER 2014, Barcelona, April 2014, [link](#)
- 2013 3.30 D. Petcu, *Modelling Quality of Service for the Cloud*, Engineering the Cloud, ICT 2013, Vilnius, November 2013.
- 3.31 D. Petcu, *Towards Application Level Interoperability in Multi-Clouds*, Cloud Standards and Interoperability Workshop, Cloud-PlugFest 2013, Madrid, September 2013.
- 3.32 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 3.33 D. Petcu, *Open-source platform-as-a-service*, 2nd Meeting of IFIP WG on Services-oriented Systems, Bologna, Sep 2012
- 3.34 D. Petcu, *Storage and Software Components Management in Multiple Clouds using mOSAIC*, e-Challenges, Lisbon, Oct 2012
- 3.35 D. Petcu, *mOSAIC- facts, objectives and current results*, CLASS conference, Bled, October 2012
- 3.36 D. Petcu, *How to build a reliable mOSAIC of multiple Cloud services*, EWDC 2012, Sibiu, May 2012, [link](#)

3.1.4 Invited papers

- 2014 3.37 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 3.38 D. Petcu *Portability and Interoperability between Clouds: Challenges and Case Study*, ServiceWave 2011, Poznan, [link](#)

3.1.5 Invited tutorials

- 2014 3.39 D. Petcu, *Multi-Clouds: from models to runtime support*, SummerSOC 2014, Advanced School on Service Oriented Computing, Hersonissos, July 2014, [link](#)
- 2013 3.40 D. Petcu, *Cloud Management Software for Multi-Clouds*, Cloud computing SummerSchool, "Paving the way to the Cloud", Almere, July 2013, [link](#)

- 2012 3.41 D. Petcu, *How to Port an Application Between Clouds?*, ADAPTIVE 2012, Nice, July 2012, [link](#)
- 2011 3.42 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 3.43 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 3.44 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 3.45 D. Petcu, *Cloud Computing*, TEMPUS+ lecture at University of Pavia, 28-29 April 2015, [link](#)
- 2013 3.46 D. Petcu, *The challenges of Multi-Clouds*, seminar at University of Pavia, December 19, 2013, [link](#)
- 3.47 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 3.48 D.Petcu, *Extending Computer Algebra Systems to the Grids: State-of-the-art, Design and Implementation*, 28.01.2005, Seconda Università di Napoli, Italy
- 1997 3.49 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 3.50 D. Petcu, *Security in MultiClouds*, 2014 IEEE COMPSAC, IEEE Convergence Panel, Västerås, Sweden, July 2014
- 3.51 D. Petcu, *Challenges of Cross-Clouds*, 2014 IEEE INFOCOM, Workshop on Cross-Cloud Systems, Toronto, April 2014
- 3.52 D. Petcu, *Cloud computing perspective in R&D projects*, European Project Space, CLOSER 2014, Barcelona, April 2014.
- 2013 3.53 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 3.54 D. Petcu, *Perspective on Fog computing*, FOG Panel, CLASS Conference, Bled, Oct 2012
- 3.55 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
- 3.56 D. Petcu, *e-IRG and mOSAIC position*, CloudScape IV, Panel: Trust, Legal & Security Issues in Cloud Computing, Feb 2012, Brussels
- 2008 3.57 D. Petcu, *HPC in Romania*, PARA 2008, Panel 2: Future Trends in Parallel & Scientific Computing, May 2008, Trondheim
- 2006 3.58 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 3.59 InfraCluster of Cloud related projects, [White paper](#), April 2016
- 2015 3.60 InfraCluster of Cloud related projects, [Recommendations](#) for the workprogramme H2020-ICT-2018-2019, December 2015
- 3.61 InfraCluster of Cloud related projects, [Map of challenges](#), October 2015
- 2012 3.62 e-IRG Task Force on Cloud Computing, [Cloud Computing for research and science: a holistic overview, policy, and recommendations](#), 30 Oct 2012,
- 3.63 Cloud Computing Expert Group Report, [Advances in Clouds. Research in Future Cloud Computing](#), May 2012
- 3.64 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 3.65 Scalable Computing: Practice and Experience ([SCPE](#), from 2009), in WoS (ESCI) from 2015, in SCOPUS from 2011

3.2.2 Member in editorial board (starting from the mentioned year)

- 2021 3.66 Future Generation Computer Systems, Elsevier ([FGCS](#), from April until September 2021), in WoS;
- 2019 3.67 Journal of Grid Computing, Springer ([JGC](#)), in WoS
- 2018 3.68 Acta Cybernetica ([AC](#)), in WoS (ESCI) and Scopus
- 2016 3.69 EAI Endorsed Transactions on Cloud Systems, ISSN: 2410-6895 ([CloudSys](#)), in EBSCO
- 2014 3.70 Complex Systems Informatics and Modeling Quarterly, ISSN: 2255-9922 ([CSIMQ](#)), in EBSCO
- 2013 3.71 Soft Computing and Networking, ISSN: 2052-8450 ([IJSCN](#)), in Asian Digital Library and J-Gate
- 2008 3.72 International Scientific Journal of Computing, ISSN: 2312-5381 ([CISJ](#)), in Scopus
- 2006 3.73 Multiagent and Grid Systems, ISSN: 1574-1702 ([MAGS](#)), in WoS (ESCI)
- 3.74 Journal on Computer Science and Information Systems, ISSN: 1646-3692 ([IJCSIS](#)), in WoS (ESCI)
- 3.75 International Review on Computers and Software, ISSN: 1828-6003 ([IRECOS](#)), in EBSCO
- 3.76 International Journal of Computers, Communications and Control, ISSN 1841-9836 ([IJCCC](#), until 2017), in WoS
- 2005 3.77 International Journal of Computer Science and Applications, ISSN: 0972-9038 ([IJCSA](#)), in Scopus
- 3.78 Scalable Computing: Practice and Experience ([SCPE](#))

3.2.3 Journal reviewer (starting from the mentioned year)

- 2023 3.79 Distributed Ledger Technologies: Research and Practice ([DLT](#)) Cluster Computing ([Cluster](#))
- 2022 3.80 Axioms ([Axioms](#))
- 2021 3.81 International Journal of Parallel Programming ([IJPP](#)); Journal of Sensor and Actuator Networks ([JSAN](#)); Expert Systems with Applications ([ESWA](#)); Big Earth Data ([TBED](#)); SN Computer Science ([SNCS](#)); Big Data and Cognitive Computing ([BDCC](#));
- 2020 3.82 Engineering with Computers ([EWCO](#)); Micromachines ([Micromachines](#)); Information ([Information](#)); Journal of Cleaner Produc-

- tion (JCLP_•); International Journal of Computing and Digital Systems (IJCD_S); Processes (Process_•); Journal of Surveillance, Security and Safety (JSS_S);
- 2019 3.83 International Journal of Information Systems in the Service Sector (IJISS_S); Advances in Engineering Software (ADE_S); Applied Sciences (APPLSCL_•); Engineering Science and Technology (JESTECH_•); Mathematics (Mathematics_•); Algorithms (ALGOCH_•); Electronics (Electronics_•); Open Computer Science (OPENCS_•); Water Supply (WS-EM_•); Social Sciences (SOCSCI_•); ISPRS International Journal of Geo-Information (IJGI_•);
- 2018 3.84 IEEE Transactions on Industrial Informatics (TII_•); PLoS One (PONE_•); Journal of Real-Time Image Processing (RTIP_•); Entropy (Entropy_•); Sustainability (Sustainability_•);
- 2017 3.85 IEEE Access (Access_•); IEEE Journal on Selected Areas in Communications (JSAC_•); Applied Soft Computing (ASOC_•); Symmetry (Symmetry_•); Sustainable Computing, Informatics and Systems (SUSCOM_•); Computer Languages, Systems & Structures (COMLAN_•); Journal of Software: Evolution and Process (JSME_•); Studies in Informatics and Control (SIC_•); Software: Practice and Experience (SPE_•); International Journal of Services Technology and Management (IJSTM_•); Open Cybernetics & Systemics Journal (TOCSJ_•);
- 2016 3.86 ACM Computing Surveys (CSUR_•); International Journal of High Performance Computing Applications (IJHPCA_•); International Journal of Cooperative Information Systems (IJCIS_•); Computing and Informatics (CAI_•); Journal of Applied Remote Sensing (JARS_•); Transactions on Large Scale Data and Knowledge Centered Systems (TLDKS_•); International Journal of Computer Engineering Research (IJCER_•); Journal of King Saud University - Computer and Information Sciences (JKSUCIS_•);
- 2015 3.87 IEEE Transactions on Services Computing (TSCSI_•); Journal of Hydrology (HYDROL_•); Journal of Systems and Software (JSS_•); Journal of Sensors (JS_•); Scientific Programming (SP_•); Journal of Computer Networks and Communications (JCNC_•); Central European Journal of Computer Science (CEJCS_•); Computers & Mathematics with Applications (CAMWA_•); Egyptian Informatics Journal, Elsevier (EIJ_•);
- 2014 3.88 IEEE Transactions on Computers (TC_•); IEEE Systems Journal (ISJ_•); Data & Knowledge Engineering (DATA-K_•); Journal of Parallel and Distributed Computing (JPDC_•); Concurrency and Computation: Practice and Experience (CCPE_•); Mathematical Problems in Engineering (MPE_•); Journal of Web Engineering (JWE_•); Journal of Computational and Applied Mathematics (CAM_•); International Journal of Distributed Sensor Networks (IJDSN_•); Peer-to-Peer Networking and Applications (PPNA_•); Journal of Cloud Computing: Advances, Systems and Applications (CLCO_•); International Journal of Digital Earth (IJDE_•); IEEE Cloud Computing Magazine (CCM_•); Environment Research (ER_•);
- 2013 3.89 World Wide Web: Internet and Web Information Systems (WWW_•); Informatica (Informatica_•, from Vilnius, 2013); Simulation Modelling Practice and Theory (SIMPAT_•); Computing (COMP_•); Journal of Universal Computer Science (J.UCS_•); International Journal of Advanced Computer Science and Applications (IJACSA until 2017); Geoinformatics & Geostatistics: An Overview (GIGS_•); Computer Science (CSCI_•); Applied Mathematics & Information Sciences (AMIS_•); IEEE Transactions on Cloud Computing (TCC_•);
- 2012 3.90 IEEE Transactions on Parallel and Distributed Systems (TPDS_•); IEEE Transactions on Dependable and Secure Computing (TDSC_•); Journal of Network and Computer Applications (JNCA_•); IEEE Computer (Computer_•); Scientific Research and Essays (SRE_•); Computer Science and Information Sciences (ComSIS_•);
- 2011 3.91 Journal of Grid Computing, Springer (JGC_•)
- 2010 3.92 Journal of Computational Science (JoCS_•); Computer Standards & Interfaces (CSI_•); Journal of Supercomputing (JoS_•);
- 2008 3.93 Information Sciences, Elsevier (INS_•)
- 2007 3.94 Engineering Applications of Computational Fluid Mechanics (JEACFM_•); International Journal of Grid and Utility Computing (IJGUC_•); Bulletin of the Belgian Mathematical Society (BBMS_•); International Journal of Computational Science and Engineering (IJCSE_•);
- 2006 3.95 Mathematical Reviews (MR, until 2012); International Journal of Computer Mathematics (IJCM_•);
- 2005 3.96 Future Generation Computer Systems, Elsevier (FGCS_•); Parallel Computing, Elsevier (PARCO_•); Computing Reviews (CR until 2013); Journal of Systemics, Cybernetics and Informatics (JSCI_•);
- 1998 3.97 Annals of West University of Timișoara, Mathematical-Computer Science Series (AWUTM)
- 1993 3.98 Zentralblatt für Mathematik (ZBL)

3.2.4 Journal editorials

- 2018 3.99 J. Carretero, J. Garcia-Blas, G. Antoniu, D. Petcu, *New directions in mobile, hybrid, and heterogeneous clouds for cyberinfrastructures*, Future Generation Computer Systems (FGCS_•), Vol. 87, 2018, 615-617, WoS: 000437997500051, doi: [10.1016/j.future.2018.05.073](https://doi.org/10.1016/j.future.2018.05.073) (cits: 1)
- 3.100 G.A.Gravvanis, J.P.Morrison, D.Petcu, T.Lynn, C.K.Filesos-Papadopoulus, *Recent trends in cloud computing*, Future Generation Computer Systems (FGCS_•) 79, 2018, 700-702, WoS: 000418975100019, doi: [10.1016/j.future.2017.11.006](https://doi.org/10.1016/j.future.2017.11.006) (cits: 4)
- 2016 3.101 D. Petcu, *Introduction to the Special Issue on New Approaches for Infrastructure Services*, Scalable Computing: Practice and Experience 17 (4), iii-iv, doi: [10.12694/scpe.v17i4.1199](https://doi.org/10.12694/scpe.v17i4.1199)
- 2013 3.102 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), WoS: 000213238700001 [link](#)
- 2012 3.103 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, WoS: 000420400800001, [link](#)
- 3.104 D. Petcu, D. Zaharie, *Agent based systems & semantic software services*, Scalable Computing: Practice and Experiences 13 (1), 2012, WoS: 000420398400001, [link](#)
- 2011 3.105 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, WoS: 000420396200001, [link-1](#) and [link-2](#)
- 3.106 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](#)
- 3.107 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, WoS: 000371244100011, [link](#)

- 3.108 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, WoS: 000420383400001, [link](#) (cits: 1)
- 2008 3.109 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 3.110 D. Petcu, *Practical Aspects of Large-Scale Distributed Computing*, Scalable Computing: Practice and Experience (SCPE) 8 (3), 2007 (electronic version, ISSN 1097-2803, WoS: 000420371200002, [link](#)
- 3.111 D. Petcu, *Challenges concerning symbolic computations on grids*, Scalable Computing: Practice and Experience (SCPE) 6 (3), 2005 (electronic version, ISSN 1895-1767, WoS: 000420360100001, [link](#) (cits: 1)

3.2.5 Proceedings editor

- 2024 3.112 M. Younas, I. Awan, D. Petcu, B. Feng, *Mobile Web and Intelligent Information Systems*, 20th International Conference, MobiWIS 2024 Vienna, Austria, August 19–21, 2024, LNCS 14792, ISSN 0302-9743, ISSN 1611-3349 (electronic) ISBN 978-3-031-68004-5, ISBN 978-3-031-68005-2 (eBook) [10.1007/978-3-031-68005-2](#),
- 2023 3.113 M. Younas, I. Awan, S. Benbernou, D. Petcu, *The 4th Joint International Conference on Deep Learning, Big Data and Blockchain, DBB 2023*, August 2023, Springer, Lecture Notes in Networks and Systems (LNNS), volume 768, Softcover ISBN 978-3-031-42316-1, eBook ISBN 978-3-031-42317-8 [10.1007/978-3-031-42317-8](#),
- 2022 3.114 R. Beck, D. Petcu, M. Fotache, S. Matook, *30th European Conference on Information Systems - New Horizons in Digitally United Societies, ECIS 2022*, June 18-24, 2022, Association for Information Systems, ISBN: [978-1-958200-02-5](#) ([print](#))
- 2020 3.115 E. De Nitto, D. Zaharie, V. Negru, D. Petcu, *2020 22nd International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*, IEEE, 978-1-7281-7628-4 [10.1109/SYNASC51798.2020.00005](#),
- 2019 3.116 H. Hong, V. Negru, D. Petcu, D. Zaharie, *2019 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*, IEEE, 978-1-7281-5724-5 doi: [10.1109/SYNASC.2019.001](#)
- 2018 3.117 E. Abraham, V. Negru, D. Petcu, D. Zaharie, T. Ida, T. Jebelean, *2018 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*, IEEE, 978-1-7281-0624-3 doi: [10.1109/SYNASC.2018.001](#)
- 2017 3.118 T. Jebelean, V. Negru, D. Petcu, D. Zaharie, T. Ida, S. Watt, *2017 19th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC)*, IEEE, ISBN:978-1-5386-2625-2 doi: [10.1109/SYNASC.2017.001](#)
- 2016 3.119 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 CSP, doi: [10.1109/SYNASC.2016.001](#)
- 3.120 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 3.121 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 CSP, doi: [10.1109/SYNASC.2015.1](#)
- 2014 3.122 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 CSP, doi: [10.1109/SYNASC.2014.1](#)
- 2013 3.123 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 CSP, doi: [10.1109/SYNASC.2013.1](#)
- 3.124 D. Petcu, V. Stankovski: *Introduction to the Proceedings of the Workshop on Cloud-enabled Business Process Management (CeBPM) 2012*. Web Information Systems Engineering – WISE 2011 and 2012 Workshops, 01/2013: pages 53-54, doi: [10.1007/978-3-642-38333-5-7](#)
- 2012 3.125 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 CSP, doi: [10.1109/SYNASC.2012.1](#)
- 3.126 D. Petcu, E. Troubitsyna (eds.): *ADAPTIVE 2012*, 4th International Conference on Adaptive and Self-Adaptive Systems and Applications, ISBN: 978-1-61208-219-6
- 3.127 D. Petcu, L. Barolli, R. Hill: *Message from the workshops co-chairs of EIDWT 2012*. doi: [10.1109/EIDWT.2012.5](#)
- 2011 3.128 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 CSP, doi: [10.1109/SYNASC.2011.1](#)
- 3.129 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 3.130 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 CSP, doi: [10.1109/SYNASC.2010.1](#)
- 3.131 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 3.132 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, doi: [10.1007/978-3-642-01671-4](#)
- 3.133 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 CSP, doi: [10.1109/SYNASC.2009.1](#)
- 2008 3.134 V. Negru, T. Jebelean, D. Petcu, D. Zaharie, *Proceedings of SYNASC. 2008*, 10th Int. Symp. on Symbolic and Numeric Algorithms for Scientific Computing, IEEE CSP, doi: [10.1109/SYNASC.2008.1](#)
- 2007 3.135 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 CSP, doi: [10.1109/SYNASC.2007.1](#)
- 2006 3.136 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 CSP, doi: [10.1109/ISPDC.2006.27](#)
- 3.137 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 CSP, 2006, doi: [10.1109/SYNASC.2006.1](#)
- 3.138 D.S. Katz, M. Baker, A. Apon, M. Ashworth, R.M. Badia, J.C. Cunha, E. Deelman, K. Hawick, R. Moore, L. Moreau, J. Morrison, H. Ong, M. Paprzycki, D. Petcu, O. Rana, D. Roman, O. Shehory, P. Uthayopas, C.-L. Wang, T. Yunck, R. Boakes, G. Smith, R. Lakhoo, M. Grove: *Message from the WSGA workshop co-chairs*. doi: [10.1109/ICPPW.2006.52](#)

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- 2004 3.141 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 3.142 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 3.143 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 3.144 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](https://doi.org/10.1007/978-3-319-46031-4) (open access) (cits: 39)
- 3.145 A. Galis, A. Gavras, F. Álvarez, A. Bassi, M. Bezzi, L. Ciavaglia, F. Cleary, P. Daras, H. De Meer, P. Demestichas, J. Domingue, T. G. Kanter, S. Karnouskos, S. Krvco, L. Lefevre, J. Lentjes, M.-S. Li, P. Malone, A. Manzalini, V. Lotz, H. Müller, K. Oberle, N. E. O'Connor, N. Papanikolaou, D. Petcu, R. Rahmani, D. Raz, G. Richards, E. Salvadori, S. Sargento, H. Schaffers, J. Serrat, B. Stiller, A. F. Skarmeta, K. Tutschku, T. Zahariadis, The Future Internet – Future Internet Assembly 2013: Validated Results and New Horizons, LNCS 7858, Springer, 2013 (open access), doi: [10.1007/978-3-642-38082-2](https://doi.org/10.1007/978-3-642-38082-2) (cits: 17)
- 2012 3.146 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](#) (cits: 10)

3.2.7 Book introductions

- 2013 3.147 D. Petcu, A. Galis, and S. Karnouskos, *The Future Internet Cloud: Computing, Networking and Mobility*, in Alex Galis et al (Volume Eds.) The Future Internet – Future Internet Assembly 2013: Validated Results and New Horizons, LNCS 7858, XXI-XXIII, 2013, [link](#)

3.2.8 Book reviews

- 2008 3.148 D. Petcu, A Comprehensive Development Guide for the Globus Toolkit, IEEE Distributed Systems Online, vol. 9, no. 6, 2008, art. no. 0806-o6003, doi: [10.1109/MDSO.2008.15](https://doi.org/10.1109/MDSO.2008.15) (cits: 3)
- 2005 3.149 D. Petcu, Parallel Numerical Applications on Grid Environments, IEEE Distributed Systems Online, vol. 6, no. 4, Apr., 2005, doi: [10.1109/MDSO.2005.21](https://doi.org/10.1109/MDSO.2005.21)

3.3 Science support activities

3.3.1 Member in steering committees of conference series/Advisory Committee

- 2015 3.150 [OBD](#) (2015-2016),
- 2006 3.151 [ISPDC](#) (from 2006)
- 2003 3.152 [SYNASC](#) (from 2003)

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

- 2023 3.153 [DBB](#) (MO)
- 2022 3.154 [ECIS](#) (RO), [FiCloud](#) (IT), [Track Scientific and Industrial applications/CCGrid](#) (IT),
- 2020 3.155 [SYNASC](#) (RO)
- 2019 3.156 [Track Edge Computing/CCGrid](#) (CY), [SYNASC](#) (RO)
- 2018 3.157 [ICAC/SASO](#) (IT), [HPC-ST/SYNASC](#) (RO), [WSC/FedCSIS](#) (PL), [SYNASC](#) (RO)
- 2017 3.158 [Innovate-Data](#) (CZ), Mobile, Hybrid and Emerging Cloud track & TAPEMS workshop/[CCGrid](#) (ES), [SOSeMC/ICAC](#) (US), [WSC/FedCSIS](#) (CZ), [HPC-ST/SYNASC](#) (RO), [SYNASC](#) (RO)
- 2016 3.159 [SOSeMC/ICAC](#) (AT), [ICA3PP](#)/[Track BigData&Appl](#) (SP), [CLIoT/ESOC](#) (AT), [MICAS](#) and [HPC-ST/SYNASC](#) (RO), [WSC/FedCSIS](#) (PL), [SYNASC](#) (RO)
- 2015 3.160 [AIMC/Eurosys](#) (FR), [CLIoT](#) (IT), [MICAS](#) and [HPC-E5/SYNASC](#) (RO), [SYNASC](#) (RO)
- 2014 3.161 [MultiCloud/CLOSER](#) (SP), [MICAS](#) and [HPCReS/SYNASC](#) (RO), [C4Bio/CCGrid](#) (US), [SCoDiS-LaSCoG](#) (PL), [SoftwareArch/FiCloud](#) (ES), [SYNASC](#) (RO)
- 2013 3.162 [MoCSop](#) (ES), [MICAS](#) and [HPCSP/SYNASC](#) (RO), [SYNASC](#) (RO)
- 2012 3.163 [WoSS-4/CLASS](#) (SL), [C4BB4C/ISPA](#) (ES), [EIDWT](#) (RO), [CeBPM/WISE](#) (CY), [MICAS](#) and [WoHS/SYNASC](#) (RO), [SYNASC](#) (RO)
- 2011 3.164 [CCPI/Euro-Par](#) (FR), [WoSS-2/SYNASC](#) (RO) -3/[FedCSIS](#) (PL), [IDAACS](#) (CZ), [SCoDiS-LaSCoG](#) (PL), [SYNASC](#) (RO)
- 2010 3.165 [CCPI/Euro-Par](#) (IT), [WoSS-1/SYNASC](#) (RO), [SCoDiS-LaSCoG/FedCSIS](#) (PL), [SYNASC](#) (RO)
- 2009 3.166 [GPC](#) (CH), [LaSCoG](#) (PL), [SYNASC](#) (RO)
- 2008 3.167 [LaSCoG](#) (PL), [GridTDT-1,-2](#) (RO), [SYNASC](#) (RO)
- 2007 3.168 [LaSCoG](#) (PL), [SYNASC](#) (RO)
- 2006 3.169 [ISPDC](#) (RO), [GridTDT](#) (RO), [LaSCoG](#) (PL), [SYNASC](#) (RO)
- 2005 3.170 [VISSAS](#) (RO), [LaSCoG](#) (PL), [SYNASC](#) (RO)
- 2004 3.171 [SGC](#) (RO), [LaSCoG](#) (PL), [CaVIS](#) (RO), [SYNASC](#) (RO)
- 2003 3.172 [LaSCoG](#) (PL), [CaVIS](#) (RO), [SYNASC](#) (RO)
- 2002

3.3.3 Panel organizer

- 2012 3.174 Session 2.3 Interoperability between Clouds /FIA-Aalborg (DK), May 2012
 3.175 Interoperability in Cloud Federation / IoS 2012 (BE), Oct 2012

3.3.4 Member in Conference Program Committees

- 2025 3.176 I4CS (PT), CLOSER (PT), ICEIS (PT), ENASE (PT), Modelsward (PT)
- 2024 3.177 Track-DAAICS& HeteroPar/EuroPar (ES), Track-FCCSE/CCGRID (SUA), ICCS (SP), Modelsward (IT), FICC (US), CLOSER (FR), ICEIS (FR), ENASE (FR), Computing (UK), ICISOFT (FR), ICMLA (US), SC (US), CODIT (MT), ICCCN (US), PPAM (PL), COHERENT at ICCCN (US), I4CS (NL), FTC (UK), SOSE (CHI), CompSysTech (BG), IEEE BigData (US), BigDataService (CHI), AlxHEART (US), CBDCom (PH), PICom (PH), IEEE IMC (CHI), CANA/FedCSIS (SB), CISOSE (CHI), HiPC (IN), IDC (NL), IWSG(FR), iThings (DK), GECON (SP), CASCON (CA)
- 2023 3.178 CCGRID (IN), ESSA & HCW /IPDPS (US), HeteroPar/EuroPar (CY), ICCS (UK), ACM/SPEC ICPE (PT), ISPDC (DE), FedCSIS (PL), CloudCom (IT), Modelsward (PT), FICC (OL), CLOSER (CZ), ENASE (CZ), ICEIS (CZ), IEEE WCNC (UK), Computing (UK), ICISOFT (IT), CloudTech (MA), ICMLA (US), BDS (GR), I4CS (DE), CSCS (RO), IDAACS (DE), ScalCom (CZ), CODIT (IT), IWSG (DE), CANA/FedCSIS (PL), HLPP (RO), CCIOT (JP), IEEE BigData (IT), IEEE Mobile Cloud (GR), CompSysTech (BG), SOSE (GR), BIR (IT), AC (PT), SC (US), HiPC (IN), CoCoNet (IN), WCI (N), ICVL (RO), TransAI (US), ESSE (IT), PiCom (UAE), ICMLA (US), ISPA (CHI), FAB (MO), ICPADS (CHI)
- 2022 3.179 HCW&ESSA/IPDPS (FR), ICCS (UK), CCGRID (IT), HeteroPar/EuroPar (UK), MOWU/COMPSAC (IT), ISPA (AU), I4CS (NL), PPAM (PL), CloudCom (TH), FedCSIS (BG), ISPDC (CH), Modelsward (AT), IEEE WCNC (US), CLOSER (CZ), ENASE (CZ), ICEIS (CZ), CoDIT (TR), ISCC (DE), ICISOFT (FR), IEEE SETIT (TN), SEAA (SP), PiCom (CA), CCIOT (JP), CANA (BG), ICMLA (BS), IDC (DE), BDS (US), IWSG (IT), IEEE MobileCloud (V), BigData (JP), SOSE (US), TransAI (US), CompSysTech (BG), BIR (DE), GECON (SI), WCI (IN), SETCAC (IN), AC (PT), ICRAIE (IN), IEEE iThings (FI), HPC-Asia 2023 (SG), HPCC (CHI), FAB (CA)
- 2021 3.180 HPS & HCW/IPDPS (US), ICCS (PL), BDPS/ICDCS (US), LSDVE&HeteroPar/EuroPar (PT), MOWU/COMPSAC (US), SEAA (SL), I4CS (DE), ISPDC (RO) Modelsward (AT), ICEIS (AT), ENASE (AT), CLOSER (AT), FICC (CA), IEEE WCNC (CHI), ICISOFT (FR), ScalCom (US), Computing (UK), CCN-CPS/ICC (CA), , IEEE MobileCloud (V), CSCS23 (RO), IWSG (UK), EDOC (AU), AMDE (PL), SOSE (UK), FedCSIS (OL), CompSysTech (BG), BIR (AT), IDAACS (PL), HPCAsia (RO), CBDCom (CA), FTC (CA), ICT Innovations (MK), GECON (OL), BigData (US), TransAI (US), PiCom (CA), BigService (UAE), ICMLA (US), iThings (AU), RoEduNet (RO), AHPC (US), HPCC (CHI), BalticDB&IS (LT), HI-BI-BI (NL), IUCC (UK), HPCN (UK), CIT (UK), SmartCNS (UK)
- 2020 3.181 Algorithms track at ICPP (CA), HPS/IPDPS (US), CCNCPS/WoWMoM (IR), ICCS (NL), HeteroPar/ EuroPar (PL), HCW (US), Main track & HPBench & InterCloud-HPC/HPCS (SP), ISPA (UK), HPCC (FJ), I4CS (IN), CISIS (PL), CloudCom (TH), ISPDC (PL) Modelsward (MT), ENASE (CZ), ICEIS (CZ), CLOSER (CZ), MobileCloud (UK), ICISOFT (FR), CloudTech (MA), SOSE (UK), ITGN (US), ICUIA (TW), BDS (UK), AMDE/ANT (PL), PiCom (CA), CoDIT (CZ), Main track & EdgeWays/ ESOCC (GR), CBDCom (CA), EDOC (NL), GC/TransAI (US), IEEE iSCI (CHI), BIR (AT), IWSG (UK), CANA/FEDCSIS (BG), AC (PT), FTC (CA), ICT Innovations (MK), GECON (SI), CompSysTech (BG), CoCoNet (CHI), BigData (US), SETCAC (IN), iThings (GR), 3ICT (BH), ScalCom (AU), SRC (KB), FAB (CA)
- 2019 3.182 Edge Comp.Track&TAPEMS&CEBDA/CCGrid (CY), ICCS (PT), HCW/IPDPS (BR), Algorithms track/ICPP (JP), HeteroPar&EuroPar&LSDVE/EuroPar (DE), SFECs track/SAC (CY), MOWU/COMPSAC (US), WCNC (MO), Main track&HPBench&InterCloud HPC/HPCS (IR), ICA3PP (AU), ISPA (CHI), ICDCIT (IN), I4CS (DE), PPAM (PL), ISPDC (NL), CloudCom (AU), SYNASC (RO) FICC (US), ICISOFT (CZ), MODELWARD (CZ), Main tracks & MaTCHBOX/CLOSER (CZ), ENASE (CZ), ICEIS (CZ), IEEE BigDataService (US), CoDIT (FR), SOSE (US), ICCMIT (AT), CC (UK), IEEE Mobile Cloud (US), TAPEMS (CY), ScalCom (UK), SWC (UK), IWSG (SI), CANA/FedCSIS (PL), CEISEE (PT), CSCS22 (RO), IDAACS (FR), IDC (RU), EDOC (FR), CompSysTech (BG), PiCom (JP), BCI (BG), FTC (US), CPSCOM (US), BigDataSE (NZ), ICACCI (IN), GECON (UK), ICT Innovations (MK), IEEE BigData (US), CBDCom (JP), BIDMA (CA), GC (US), ICSTCC (RO), AC (IT), iThings (US), BDP/HiPC (IN), CoCoNet (IN), FAB (CA), SETCAC (IN), WCI/CoCoNet (IN), DewCom (CA),
- 2018 3.183 Main track & UC workshop at ICCS (CH), CEBDA/IPDPS (CA), Algorithms track at ICPP (US), HeteroPar & LSDVE & EduPar /EuroPar (IT), Cluster (UK), HCW (CA), HPCC (UK), MOWU/COMPSAC (JP), CCNCPS/ICC (US), HPCS (FR), ICA3PP (CN), ISPA (AU), ISPDC (CH), GPC (CN), ICDCIT (IN), CloudCom - track Edge Computing and Distributed Cloud (CY), CIT (CA), SYNASC (RO) ICDCIT (IN), FICC (SG), IoT-SIU (IN), IT4RIs (NL), SOSE (DE), CC (UK), IEEE BigDataService (DE), IEEE Mobile Cloud (DE), ICISOFT (PT), EIDWT (AL), i-Society (IR), CANA/FedCSIS (PL), BIDMA (CA), CBDCom (CN), EDOC (SW), SACI (RO), CoDIT (GR), PICom (GR), ScalCom (CN), SmartCity (UK), ICCST (MY), ICT Innovations (MK), FAB (SP), SWC (CN), GECON (IT), WCI (IN), CSE (RO), SETCAC (IN), FTC (CA), ACMINS (IN), iThings (CA), LISS (CA), CompSysTech (BG), IEEE Big Data (US), AC (HU), CloudWays (IT), PiCom (GR), CloudTech (BE), FICC (US), RoEduNet (RO), DewCom (CA)
- 2017 3.184 Mobile&HibridClouds track, TAPEMS, EBDMA/CCGrid (SP), ICISOFT (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 3.185 Sci.Eng.Comp. track/ICSE (FR), IT4RIs/RTSS (PT), CCGrid (SA), CompArch/WICSA (IT), HeteoPar & LSDVE & EuroEduPar/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 3.186 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 3.187 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 3.188 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 3.189 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), EWDC (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 3.190 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 3.191 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), ICC (RO), SOCASE (CAN), CANA (PL), eGov Summit (BG), EDGeS (NL), ICCP (RO), MiDiS (JP), AG (US), INCoS (GR), SOCMAS (US), SEE (US)
- 2009 3.192 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 3.193 HeteroPar/Cluster (JP), HPCS (CY), CIC (US), ICEIS (SP), ISPDC (PL), GADA (MEX), SYNASC (RO), ANSS (CAN), ICC (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 3.194 HeteroPar/Cluster (US), 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 3.195 HETEROPAR/Cluster (SP), ICPADS (USA), HPCS (DE), ICEIS (CY), CIC (USA), ISPDC (RO), SYNASC (RO), ICC (RO), ICCGI (RO), ADVIS (TK), WSGA (USA), ICCP (RO), ICVL (RO), NCUS (KO), HiPC (IND), KICSS (THAI), CONTI (RO), CCCT (US), LASCOG (PL), FIMCSIT (PL)
- 2005 3.196 CIC (US), ISPDC (FR), PPAM (PL), SYNASC (RO), SOFA (HU), IADIS (SP), ICTIS (MOR), WAGSSDA (NO), CCCT (US), ESM (LV), ABC (US), LASCOG (PL), PARNUM (SI), ICCOMP (GR), HPC&S (LV), NCUS (JP), CNIV (RO)
- 2004 3.197 ISPDC (IR), SYNASC (RO), ADVIS (TUR), SCI (US), CCCT (US), CONTI (RO), ICC (RO), CNIV (RO)
- 2003 3.198 ISPDC (SI), PPAM (PL), SYNASC (RO), SCI (US), CNIV (RO)
- 2002 3.199 SYNASC (RO)
- 2001 3.200 SYNASC (RO)

3.3.5 Member in Habilitation or PhD thesis defence committees

- 2021 3.201 West Univ. Timisoara (RO), Univ. Politehnica Timisoara (RO), Univ. Babes-Bolyai Cluj-Napoca (RO)
- 2020 3.202 West Univ. Timisoara (RO), Univ. Politehnica Timisoara (RO)
- 2019 3.203 Univ.College Cork (IE)
- 2018 3.204 Univ. Innsbruck (AT), Univ.College Cork (IE)
- 2017 3.205 Univ. Politehnica Bucharest (RO), Univ. Pavia (IT)

- 2016 3.206 West Univ. Timisoara (RO), Univ. Politehnica Bucharest (RO), Univ. Politehnica Timisoara (RO), Politecnico di Milano (IT), Univ. York (UK)
- 2015 3.207 West Univ. Timisoara (RO), 2 x Johannes Kepler Univ. of Linz (AT), Univ. Pisa (IT)
- 2014 3.208 Univ. Politehnica Timisoara (RO), Univ. Babes-Bolyai Cluj-Napoca (RO)
- 2013 3.209 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 3.210 West Univ. Timisoara (RO), Univ. Politehnica Timisoara (RO), Ss. Cyril and Methodius Univ. Skopje (MK)
- 2011 3.211 West Univ. Timisoara (RO), U. Politehnica Timisoara (RO), Univ. Babes Bolyai Cluj-Napoca (RO), U. College Cork (IE)
- 2010 3.212 2 x Gh. Asachi Technical Univ. Iasi (RO)
- 2009 3.213 West Univ. Timisoara (RO), 3 x Univ. Politehnica Timisoara (RO), Univ. Pisa (IT)
- 2008 3.214 2 x Univ. Politehnica Bucuresti (RO), 1 x Univ. Tehnica Cluj (RO)
- 2006 3.215 West Univ. Timisoara (RO), Univ. College Cork (IE)

3.3.6 Consolidation of research teams

- 3.216 attract R&D funds for Institute e-Austria Timisoara, 2002-present for 5+ team members (yearly)

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

3.4.1 International research grants

Project coordinator

- 2012 3.217 FP7-RegPOT [HOST](#): High Performance Computing Service Center, 2012-2014, 2 226 272 Euros/UVT
- 2010 3.218 FP7-ICT [SPRERS](#): Strengthening the Participation of RO at EU R&D in Software Services, 2010-2011, 414415 Euros/UVT

Scientific coordinator

- 2010 3.219 FP7 [mOSAIC](#): Open-source API and Platform for multiple Clouds, 2010-2013, 374 550 Euros/IeAT

Coordinator of bilateral projects

- 2009 3.220 SciCom: Scientific Computing Platform. Collaboration Romania-Austria, 2009-2010, 22 000 Lei/UVT
- 2008 3.221 AEMTIA: Automated Exploration of Mathematical Theories for Industrial Applications, 2008-2011, 156 000 Euros/IeAT
- 2006 3.222 COBURDIS: Collaboration Romania-Ukraine in Distributed Computing, 2006-2007, 11 000 Lei/UVT
- 2002 3.223 Automated verification of software and hardware components, IeAT & RISC Linz, 2002-2005, 413 350 Euros/IeAT
- 1996 3.224 Entwicklung paralleler Algorithmen für die Lösung steifer Differentialgleichungen, 1996, U. Ruprecht-Karls Heidelberg,

Local team coordinator in collaborative projects

- 2020 3.225 CHIST-ERA [DIPET](#), 2020-2023, 200 000 Euros/UVT
- 2018 3.226 H2020-FETHPC [ASPIDE](#), 2018-2020, 227 175 Euros/IeAT
- 2017 3.227 InnoReg-Danube [InnoHPC](#), 2017-2018, 131 000 Euros/UVT
- 2015 3.228 H2020-EINFRA [VI-SEEM](#), 2015-2018, 148 750 Euros/UVT
- 3.229 H2020-EINFRA [SESAME NET](#), 2015-2017, 114 062 Euros/UVT
- 3.230 H2020-ICT [CloudLightning](#), 2015-2018, 283 750 Euros/IeAT
- 3.231 H2020-ICT [DICE](#), 2015-2018, 295 375 Euros/IeAT
- 2014 3.232 CIP [Share-PSI 2.0](#), 2014-2016, 20 000 Euros/UVT
- 3.233 COST [NESUS](#), 2014-2018, 15 000 Euros/UVT
- 2013 3.234 FP7 [SPECS](#), 2013-2016, 220 800 Euros/IeAT
- 3.235 FP7 [SCAPE](#), 2013-2014, 90 880 Euros/UVT
- 2012 3.236 FP7 [MODAClouds](#), 2012-2015, 355 136 Euros/IeAT
- 3.237 CIP [SEED](#), 2012-2014, 115 722 Euros/IeAT
- 2010 3.238 FP7 [HP-SEE](#), 2010-2013, 27 700 Euros/UVT
- 2009 3.239 COST [ComplexHPC](#), 2009-2013, 15 000 Euros/UVT
- 2008 3.240 FP7 [DEHEMS](#) 2008-2011, 156 492 Euros/IeAT
- 3.241 FP7 [SEE-GRID-SCI](#), 2008-2010, 24 346 Euros/UVT
- 2006 3.242 FP6 [SCIENCE](#), 2006-2011, 208 560 Euros/IeAT

Member

- 2022 3.243 HE [AI4Europe](#), 2022-2026
- 2010 3.244 FP7 [EGI-Inspire](#), 2010-2014
- 2008 3.245 FP7 [EGEE-3](#), 2008-2010
- 2007 3.246 FP6 [SEE-GRID-2](#), 2007-2008
- 3.247 FP6 [EGEE-2](#), 2007-2008
- 2005 3.248 FP6 [VISP](#), 2005-2009
- 3.249 FP6-ERG5 [SystemaThEx](#), 2005-2007

3.4.2 International funds, national execution

Project coordinator

- 2009 3.250 [InfraGrid](#): Service-oriented Grid Infrastructure, EC Structural Funds, 2009-2011, 1 911 601 Ron/UVT
- 2008 3.251 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

3.252 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

- 2021 3.253 **COCO**: Adaptivity in cloud-to-edge COntinuum COmputing, 2021-2023, 1 198 032 Ron/UVT
- 2018 3.254 **BID**: Big Data Science, 2018-2020, 5 000 000 Ron/UVT
- 2012 3.255 **AMICAS**: Automated Management in Cloud, 2012-2016, 1 348 000 Ron/UVT
- 2006 3.256 **GRAI**: Grid computing and Artificial Intelligence, 2006-2008, 472 500 Ron/UVT
- 2005 3.257 **ProWest**: Promotion of the research activities in computer science in West Romania, 2005-2007, 180000 Ron/IeAT&UVT
- 3.258 P-systems: Models and implementations for simulating P systems, 2005-2006, 3 000 Ron/IeAT
- 2004 3.259 CompGrid: high performance computing on wide area networks, 2004-2006, 575 000 000 Lei/UVT
- 2002 3.260 High performance computing technologies based on grid and cluster architectures, 2002-2003, 70 000 000 Lei/UVT
- 1998 3.261 Parallel & distributed processing in graphics, image processing & computational geometry, 1998-1999, 22000000 Lei/UVT

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

- 3.262 CloudLightning+, 2016-2018, 96 005 Ron/IeAT
- 3.263 DICE+, 2016-2018, 99 939 Ron/IeAT
- 3.264 MODAClouds-RO, 2013-2015, 494 280 Ron/IeAT
- 3.265 mOSAIC-RO, 2011-2013, 471 000 Ron/IeAT
- 3.266 DEHEMS-RO, 2009-2010, 214 223 Ron/IeAT

Local team coordinator in collaborative projects

- 2005 3.267 **MedioGrid**: Parallel and distributed image processing on grid architecture of geographical and environment data, 2005-2008, 124 195 Ron/UVT
- 3.268 **GridMOSI**: Virtual organization based on Grid technology for high performance modelling, simulation, and optimization, 2005-2008, 190 000 Ron/UVT
- 3.269 **NanoSim**: Transport phenomena and structure formation at the micro/nanometer scale in biomedicine and materials science, 2005-2008, 118 000 Ron/IeAT
- 3.270 ForMol: Computational formalism inspired by Molecular Biology, 2005-2008, 180 000 Ron/IeAT

Member

- 2008 3.271 ASISTSYS: Integrated System of Assistance for Analysis and Multidisciplinary Design Optimisation, 2008-2011
- 3.272 SCIPA: Semantic software services for collaboration and inter-operability for adaptive business processes, 2008-2011
- 2007 3.273 SIPADOC: Integrated system for the digitization and capitalization of the document's cultural patrimony, 2007-2010
- 3.274 PEGAF: Grid-based experimental platform for developing applications based on workflows and with dynamic allocation of resources, 2007-2010
- 2006 3.275 SIAPOM: Integrated System for Analysis and Multidisciplinary Design Optimisation, 2006-2008
- 2005 3.276 SINRED: National management system for digital resources in science & technologies based on Grid architectures, 2005-2008
- 3.277 MindSoft: Multi-agent models and soft computing in knowledge engineering, 2005-2007
- 2001 3.278 Distributed models for solving complex problems, 2001-2002.
- 2000 3.279 Center for advanced technologies in computer science, 2000-2001.
- 1998 3.280 Intelligent interfaces for nonlinear problems, 1998-2000.
- 1997 3.281 Pilot center for teaching informatics, 1997-2002
- 3.282 Computational geometry in movement planning, 1997.
- 3.283 Computer program for the strength to the seismic loads, 1997.
- 1996 3.284 Biographic methods for the study of nonlinear and unelastic behaviour of steel structures under seismic actions, 1996
- 1995 3.285 Intelligent environments for scientific computing, 1995-2002
- 3.286 Computing methods for seismic actions on steel structures, 1995.
- 1993 3.287 Coupling symbolic and numeric calculus, 1993-1994.

Chapter 4 Activity impact

4.1 Selected citations

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2011: 10.1016/j.eswa.2010.10.070, 2008: 10.1016/j.engstruct.2008.12.001, 2007: 10.1016/j.jesr.2006.09.004, 2006: 10.1016/j.jesr.2006.01.003,
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