

## Mihnea Alexandru Dulea

---

Publications  
Presentations  
Conferences

372 citations indexed in Web of Science (ISI)

*Optimization of the job management in a multi-queue environment*

Mihai Ciubăncan, Mihnea Dulea

RO-LCG 2018 “Grid, Cloud, and High-Performance Computing in Science”, Cluj-Napoca, 17-19 October 2018, IEEE Proceedings, ISBN:978-1-5386-7042-2

*Advanced computing support for non-HEP research communities at IFIN-HH*

Ionuț Vasile, Dragoș Ciobanu-Zabet, Mihnea Dulea

RO-LCG 2018 “Grid, Cloud, and High-Performance Computing in Science”, Cluj-Napoca, 17-19 October 2018, IEEE Proceedings, ISBN:978-1-5386-7042-2

*Implementing advanced data flow and storage management solutions within a multi-VO grid site*

Mihai Ciubăncan, Mihnea Dulea

17<sup>th</sup> RoEduNet International Conference ‘Networking in Education and Research’, Targu-Mures, 21-23.09.2017, IEEE Proceedings,  
<http://ieeexplore.ieee.org/abstract/document/8123736>

*Evaluation of Multi-Source Downloads for FTS*

Alin Grigorean, Mihai Carabas, Nicolae Tapus, Mihnea Dulea, Maria Arsuaga-Rios

17<sup>th</sup> RoEduNet International Conference ‘Networking in Education and Research’, Targu-Mures, 21-23.09.2017, IEEE Proceedings

*File caching and purging strategies in the Disk Pool Manager*

Paul Dumitriu, Mihai Carabas, Nicolae Tapus, Mihnea Dulea

17<sup>th</sup> RoEduNet International Conference ‘Networking in Education and Research’, Targu-Mures, 21-23.09.2017, IEEE Proceedings

*Training in Grid Computing for Nuclear Physics Research*

Corina Dulea, Gabriel Stanescu, Viorel Serban, Mihnea Dulea

Annual Bulgarian Nuclear Society International Conference, Varna, Bulgaria, 11-14 September, 2017, BgNS Science and Technology Journal (Transactions), 2017

*Deployment of new technologies in a complex RO - LCG site*

Mihai Ciubăncan, Mihnea Dulea

RO-LCG 2017 International Conference, Sinaia, 26-28 October 2017, BoA p. 43, ISBN 978-973-0-25620-8, <http://rolcg2017.ifin.ro/docs/bookOfAbstracts.pdf>

*IFIN-HH contribution to advanced scientific computing infrastructure*

M. Dulea, D. Ciobanu-Zabet, M. Ciubancan, and I. Vasile

RO-LCG 2017 International Conference, Sinaia, 26-28 October 2017, BoA p. 15, ISBN 978-973-0-25620-8

*Value-added services provided by NGI-RO Operations Centre*

I. Vasile, D. Ciobanu-Zabet, M. Dulea

RO-LCG 2017 International Conference, Sinaia, 26-28 October 2017, BoA p. 46, ISBN 978-973-0-25620-8

*RoNBio: A molecular modeling system for computational biology*

G. Necula, D. Ciobanu-Zabet, D. Simionescu, I. Vasile, M. Mernea, and M. Dulea

RO-LCG 2017 International Conference, Sinaia, 26-28 October 2017, BoA p. 62, ISBN 978-973-0-25620-8

*Design of nanomechanical sensors based on graphene nanoribbons in a distributed computing system*

C.M. Visan, T.L. Mitran, G.A. Nemnes, I.T. Vasile, M. Dulea

The 7th International Conference "Distributed Computing and Grid-technologies in Science and Education" (GRID 2016), JINR, Dubna, 4-9.07.2016

*CLOUDIFIN, the first NGI-RO site participating to the EGI Federated Cloud*

Dragoş Ciobanu-Zabet, Ionuţ Vasile, Mihnea Dulea

RO-LCG 2017 International Conference, Sinaia, 26-28 October 2017, BoA p. 62, ISBN 978-973-0-25620-8

*One Decade of Computational Support for Advanced Research*

M. Dulea

RO-LCG 2016 Conference "Grid, Cloud, and High-Performance Computing in Science", IFIN-HH, Bucharest-Magurele, 26-28.10.2016, ISBN 978-973-0-22868-7

*Overview of the national LCG sites*

Mihnea Dulea

RO-LCG 2016 International Conference "Grid, Cloud, and High-Performance Computing in Science", IFIN-HH, Bucharest-Magurele, 26-28.10.2016, ISBN 978-973-0-22868-7

*Developing the computing environment for new research communities in Romania*

Ionut Vasile, Dragos Ciobanu-Zabet, Mihnea Dulea

EGI Community Forum 2015, 10-13 november 2015, Bari, Italy

*New developments of the WLCG site at IFIN-HH*

Mihai Ciubancan, Teodor Ivanoaica, Mihnea Dulea

8th RO-LCG 2015 International Conference, „Grid, Cloud, and High-Performance Computing in Science”, 28-30.10.2015, Cluj, IEEE Proceedings, ISBN: 978-6-0673-7039-3

*The new Operations Centre of the Romanian Grid Infrastructure*

Ionut Vasile, Dragos Ciobanu-Zabet, M. Dulea

8th RO-LCG 2015 International Conference, „Grid, Cloud, and High-Performance Computing in Science”, 28-30.10.2015, Cluj, IEEE Proceedings, ISBN: 978-6-0673-7039-3

*Contributions to the advanced computing for scientific research in Romania*

Mihnea Dulea

7th RO-LCG Conference - Grid, Cloud and High-Performance Computing in Physics Research, IEEE, 3-4.11.2014, IFIN-HH

*Participation of DFCTI in the LHC Computing Grid*

Mihai Ciubancan, Teodor Ivanoaica, Mihnea Dulea

7th RO-LCG Conference - Grid, Cloud and High-Performance Computing in Physics Research, IEEE, 3-4.11.2014, IFIN-HH

*Recent developments in the contribution of DFCTI/IFIN-HH to the WLCG collaboration*

Mihai Ciubancan, Teodor Ivanoaica, Mihnea Dulea

The 6th International Conference "Distributed Computing and Grid-technologies in Science and Education", 30.06-5.07.2014, LIT-JINR, Dubna

*Software system for inventory and assessment of the wear of computing machines from a network of grid data centres*

M. Marinescu, M. Ciubancan, M. Dulea, R.O. Grigoriu, I. Halcu, G. Neculoiu, V.C.

Sandulescu, O.C. Niculescu Faida, A.V. Marinescu

Networking in Education and Research, Joint Event 13th RoEduNet & 8th RENAM Conference, 11-13.09.2014, Technical Univ. of Moldova, Chisinau, IEEE Proceedings, p. 1-4, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6945947>

*Data transfer optimization for the DFCTI Grid site*

M. Ciubancan, S. Constantinescu, M. Dulea

Networking in Education and Research, RoEduNet International Conference IEEE, 12th Edition, Sep. 26-28, 2013, doi: 10.1109 / RoEduNet. 2013 . 6714200, p. 1-4

*Grid and HPC support for national participation in large-scale collaborations*  
M. Dulea, S. Constantinescu, M. Ciubancan, T. Ivanoaica, C. Placinta, I.T. Vasile, D. Ciobanu-Zabet  
Proc. GRID'2012 Conference, JINR, 15-21.07.2012

*National and regional organization of collaborations in advanced computing*  
M. Dulea  
Proc. RO-LCG 2012 IEEE Int'l Conference, IEEE CFP1232T-PRT, ISBN 978-973-662-710-1, pp. 63-66

*Support for multiple virtual organizations in the Romanian LCG Federation*  
M. Dulea, S. Constantinescu, M. Ciubancan  
Proc. RO-LCG 2012 IEEE Int'l Conference, IEEE CFP1232T-PRT, ISBN 978-973-662-710-1, pp. 59-62

Quantum Encrypted Data Transfers in GRID, cap. 5 in Advances in GRID Computing,  
M. Dima, M. Dulea, A. Dima, M. Stoica, M. Udrea  
ISBN- 978-953-307-301-9, InTech, p.73-94, 2011

*GriNFIC - Romanian Computing Grid for Physics and Related Areas*  
T. Ivanoaica, M. Ciubancan, S. Constantinescu, M. Dulea  
Nuclear Electronics & Computing NEC'2011, Proceedings of the XXIII International Symposium, E 10,11-2011-133, JINR, Dubna, 2011, p. 163-168

*Classical and quantum communications in GRID computing*  
M. Dima, M. Dulea, D. Aranghel, B. Mitrica, M. Petre, M. Stoica, M. Udrea, R. Sterian, P. Sterian  
Optoelectronics and Advanced Materials - Rapid Communications, 4 (11), 1840-1843, 2010

*Grid and High Performance Computing infrastructure at the National Institute for Physics and Nuclear Engineering 'Horia Hulubei'*  
M. Ciubancan, S. Constantinescu, I. Vasile, M. Dulea  
GRID2010 International Conference „Distributed Computing and Grid technologies in Science and Education”, JINR, Dubna, Russia, 28 June – 03 July 2010

*Grid system for real-time management of distributed databases, with application to the coordination of complex projects*  
C. Placinta, I. Vasile, M. Dulea  
GRID2010 International Conference „Distributed Computing and Grid technologies in Science and Education”, JINR, Dubna, Russia, 28 June – 03 July 2010, pp. 183-190, ISBN 978-5-9530-0269-1

*THE QUANTGRID PROJECT (RO) - QUANTUM SECURITY IN GRID COMPUTING APPLICATIONS*  
Dima M, Dulea M, Pauna E, et al.  
ROMANIAN JOURNAL OF PHYSICS, 54 (5-6) (2009) 441-448

*Classical and Quantum Security in Grid Computing*  
M. Dima, M. Petre, C. Petre, M. Dulea, B. Mitrica  
7th General Conference of the Balkan Physical Union, 9-13.09.2009, Alexandroupolis, Greece

*Consistent Performance Assessment of Multicore Computer Systems*  
Gh. Adam, S. Adam, A. Ayriyan, V. Korenkov, V. Mitsyn, M. Dulea and I. Vasile  
Romanian Journal of Physics, Volume 53, Issue 9-10, pp.985-991 (December 2008)

*Performance assessment of the SIMFAP parallel cluster at IFIN-HH Bucharest*  
Gh. Adam, S. Adam, A. Ayriyan, E. Dushanov, E. Hayryan, V. Korenkov, A. Lutsenko, V. Mitsyn, T. Sapozhnikova, A. Sapozhnikov, O. Streltsova, F. Buzatu, M. Dulea, I. Vasile, A. Sima, C. Visan, J. Busa and I. Pokorny  
Romanian Journal of Physics, Volume 53, Issue 5-6, pp. 665-677 (2008)

*X-ray diffraction from amorphous Ge/Si Cantor superlattices*

J arrrendahl, K.; Dulea, M.; Birch, J.; Sundgren, J.-E.

Physical Review B (Condensed Matter), Volume 51, Issue 12, March 15, 1995, pp.7621-7631

*An X-ray Study of Generalized Cantor Superlattices*

Jarrrendahl K, Birch J, Dulea M, et al.

Thin Solid Films Volume: 246 Issue: 1-2 (1994) 120-125

*Unusual scaling of the spectrum in a deterministic aperiodic tight-binding model*

Dulea, Mihnea; Johansson, Magnus; Riklund, Rolf

Physical Review B (Condensed Matter), Volume 47, Issue 14, April 1, 1993, pp.8547-8551

*Hopping Conductivity of the Fibonacci-Chain Quasi-Crystal - Comment*

Dulea M, Aldea A

Physical Review B Volume: 46 Issue: 13 (1992) 8642-8643

*Localization of electrons and electromagnetic waves in a deterministic aperiodic system*

Dulea, Mihnea; Johansson, Magnus; Riklund, Rolf

Physical Review B (Condensed Matter), Volume 45, Issue 1, January 1, 1992, pp.105-114

*Trace-map invariant and zero-energy states of the tight-binding Rudin-Shapiro model*

Dulea, Mihnea; Johansson, Magnus; Riklund, Rolf

Physical Review B (Condensed Matter), Volume 46, Issue 6, August 1, 1992, pp.3296-3304

*Transmission of light through deterministic aperiodic non-Fibonacci multilayers*

Dulea, Mihnea; Severin, Mattias; Riklund, Rolf

Physical Review B, Volume 42, Issue 6, August 15, 1990, pp.3680-3689

*Periodic and quasiperiodic wavefunctions in a class of one-dimensional quasicrystals: an analytical treatment*

Severin, M.; Dulea, M.; Riklund, R.

Journal of Physics: Condensed Matter, Volume 1, Issue 45, pp. 8851-8858 (1989).

*Hopping conduction on aperiodic chains*

Aldea, A.; Dulea, M.

Physical Review Letters, Volume 60, Issue 16, April 18, 1988, pp.1672-1675

*Long-time asymptotics in the one-dimensional trapping problem with large bias*

Aldea, A; Dulea, M; Gartner, P

Journal of Statistical Physics, 1988

*Photoluminescence of the Hopping Disordered Systems with Electrical Bias*

Dulea M., Aldea A.

Journal of Non-Crystalline Solids 90 (1-3) (1987) 461-464

*AC conductivity of a disordered chain: real-space renormalisation group approach*

Aldea, A.; Dulea, M.

Journal of Physics C: Solid State Physics,

