

Prof. Dr. Eng. Ciprian DOBRE

List of scientific publications (2000-2016)

List of relevant work:

1. C. Chilipirea, A.-C. Petre, **C. Dobre**, F. Pop, Enabling Mobile Cloud Wide Spread through an Evolutionary Market-based Approach, in IEEE Systems Journal (ISSN: 1932-8184), vol. PP nr. 99, pp. 1-8, 2015 (IF: 1.980).
2. F. Pop, **C. Dobre**, B.-C. Mocanu, O.-M. Citoreanu, F. Xhafa, Trust models for efficient communication in Mobile Cloud Computing and their applications to e-Commerce, in Enterprise Information Systems (ISSN: 1751-7575), pp. 1–19, 2015 (IF: 9.256).
3. R.-I. Ciobanu, R.-C. Marin, **C. Dobre**, V. Cristea, Interest-Awareness in Data Dissemination for Opportunistic Networks, in Ad Hoc Networks (ISSN: 1570-8705), Elsevier (online), 2014, Volume 25, Part B, pp. 330–345, February 2015 (IF: 1,53).
4. **C. Dobre**, F. Xhafa, Intelligent Services for Big Data Science, in Future Generation Computer Systems (ISSN: 0167-739X), Dobre, C., & Xhafa, F. (2014). Intelligent services for big data science. Future Generation Computer Systems, 37, pp. 267-281 (IF: 2.786).
5. **C. Dobre**, F. Xhafa, Parallel Programming Paradigms and Frameworks in Big Data Era, in International Journal of Parallel Programming (ISSN: 0885-7458), Volume 42, Issue 5, pp. 710-738, 2014 (IF: 0.491).
6. R.-I. Ciobanu, R.-C. Marin, **C. Dobre**, Interaction Predictability of Opportunistic Networks in Academic Environments, in Transactions on Emerging Telecommunications Technologies (ISSN: 2161-3915), Vol. 25 nr. 8, pp. 852-864, 2014 (IF: 1.354).
7. R.-C. Marin, **C. Dobre**, F. Xhafa, A methodology for assessing the predictable behaviour of mobile users in wireless networks, in Concurrency and Computation: Practice and Experience (ISSN: 1532-0634), Vol. 26 nr. 5, pp. 1215-1230, 2014 (IF: 0.997).
8. R.-I. Ciobanu, **C. Dobre**, M. Dascalu, S. Trausan-Matu, V. Cristea, SENSE: A Collaborative Selfish Node Detection and Incentive Mechanism for Opportunistic Networks, in Journal of Network and Computer Applications (JNCA) (ISSN: 1084-8045), vol. 41, pp. 240-249, 2014. (IF: 2,229) .
9. R.-I. Ciobanu, D. Reina, **C. Dobre**, S. Toral, P. Johnson, JDER: A history-based forwarding scheme for Delay Tolerant Networks using Jaccard Distance and Encountered Ration, in Journal of Network and Computer Applications (ISSN: 1084-8045 vol. 40, pp. 279-291, 2014 (IF: 2,229)
10. **C. Dobre**, Simulation analysis of data processing activities in Compact Muon Solenoid physics, in Simulation: Transactions of the Society for Modeling and Simulation International (SIAM) (ISSN: 0037-5497), 88(12), pp. 1438–1455, 2012 (IF: 0,818).

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Ca1. M. Popovici, A. Agache, **C. Dobre**. A survey of Temporal Knowledge Representation and Reasoning, Ed. Politehnica Press, ISBN: 978-606-515-391-2 , 2012.

Ca2. V. Cristea, F. Pop, **C. Dobre**, C. Leordeanu, A. Costan, E. Tirsă, E. Apostol, C. Stratan. Sisteme Distribuite de Mari Dimensiuni. Modele si Tehnici de Asigurare a Fiabilitatii, Sigurantei, Disponibilitatii si Securitatii. Ed. Politehnica Press, ISBN: 978-606-515-343-1, 2011.

Ca3. V. Cristea, M. Tanase, F. Pop, R. Constantinescu, C. Dobre, A. Toma. Platforma integrata pentru realizarea de tranzactii si servicii electronice de pe echipamente mobile larg raspandite. Ed. Politehnica Press, ISBN: 978-606-515-342-4, 2011.

Ca4. **C. Dobre**. Advanced techniques for modeling and simulation of Grid systems. LAP Lambert Academic Publishing, ISBN: 978-3-8433-8042-3, 216 pg, December 2010.

Ca5. V. Cristea, **C. Dobre**, C. Stratan, F. Pop, A. Costan. Large-scale Distributed Computing and Applications: Models and Trends. Ed. Information Science Publishing, ISBN : 978-1615207039, 390 pg, April 2010.

Ca6. **Ciprian Dobre**, Florin Pop, *Sisteme de Programe pentru Rețele de Calculatoare. Aplicații practice*. Ed. Politehnica Press, ISBN: 978-606-515-000-3, 198 pg, 2008.

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- D2.** O. Shiakallis, C. X. Mavromoustakis, G. Mastorakis, A. Bourdena, E. Pallis, E. Markakis, **C. Dobre**, N. Chilamkurti, A Scheduling Scheme for Throughput Optimization in Mobile Peer-to-Peer Networks, in *Emerging Innovations in Wireless Networks and Broadband Technologies*, Naveen Chilamkurti (Ed.), IGI Global, chapter 8, pp. 169-198, 2016.
- D3.** B.-C. Mocanu, F. Pop, **C. Dobre**, V. Cristea, Self-adaptive Overlay Networks, in *Pervasive Computing, 1st Edition. Next Generation Platforms for Intelligent Data Collection*, C. Dobre, F. Xhafa (Eds.), Elsevier, 2016.
- D4.** R.-I. Ciobanu, R.-C. Marin, **C. Dobre**, V. Cristea, ONSIDE-SELF: A Selfish Node Detection and Incentive Mechanism for Opportunistic Dissemination, in "Internet of Things (IoT) in 5G Mobile Technologies", C.X. Mavromoustakis, G. Mastorakis, J.M. Batalla (Eds.), Springer, pp. 317-332, 2015.
- D5.** R. Goleva, R. Stainov, D. Wagenknecht-Dimitrova, S. Mirtchev, D. Atamian, C. X. Mavromoustakis, G. Mastorakis, **C. Dobre**, A. Savov, P. Draganov, Data and Traffic Models in 5G Network, in "Internet of Things (IoT) in 5G Mobile Technologies", C.X. Mavromoustakis, G. Mastorakis, J.M. Batalla (Eds.), Springer, pp. 485-496, 2015."
- D6.** R.-C. Marin, R.-I. Ciobanu, R. Pasea, V. Barosan, M. Costea, **D1.**, Context-awareness in Opportunistic Mobile Cloud Computing, in *Resource Management of Mobile Cloud Computing Networks and Environments*, George Mastorakis, Constandinos X. Mavromoustakis, Evangelos Pallis (Eds.), *Advances in Systems Analysis, Software Engineering, and High Performance Computing (ASASEHPC) Book Series*, IGI Global, pp. 203-237, Online 27 May, 2015.
- D7.** R.-I. Ciobanu, **C. Dobre**, Employing Opportunistic Networks in Dementia Patient Monitoring, in *Advanced Technological Solutions for Dementia Patient Monitoring*, Fatos Xhafa, Philip Moore, George Tadros (Eds.), *Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series*, IGI Global, pp. 106-136, Online 27 May, 2015.
- D8.** **C. Dobre**, F. Xhafa, NoSQL Technologies for Real Time (Patient) Monitoring, in *Advanced Technological Solutions for Dementia Patient Monitoring*, Fatos Xhafa, Philip Moore, George Tadros (Eds.), *Advances in Medical Technologies and Clinical Practice (AMTCP) Book Series*, IGI Global, pp. 183-210, Online 27 May, 2015.
- D9.** C. Chilipirea, A.-C. Petre, **C. Dobre**, F. Pop, F. Xhafa, Enabling Vehicular Data with Distributed Machine Learning, in *Transactions on Computational Collective Intelligence XIX*, Vol. 9380 of the series *Lecture Notes in Computer Science*, pp. 89-102, 2015.
- D10.** R.-I. Ciobanu, **C. Dobre**, F. Xhafa, Data Modeling for Socially Based Routing in Opportunistic Networks, in *Modeling and Processing for Next-Generation Big-Data Technologies Modeling and Optimization in Science and Technologies*, Springer, Vol. 4, pp 29-55, 2015.
- D11.** R.-I. Ciobanu, V. Cristea, **C. Dobre**, F. Pop, Big Data Platforms for the Internet of Things, in *Big Data and Internet of Things: A Roadmap for Smart Environments*, C. Dobre, N. Bessis (Ed.), *Studies in Computational Intelligence*, vol. 546, Springer, ISBN: 978-3-319-05028-7, pg. 3-34, 2014.
- D12.** D. Al-Jumeily, M. Al-Zawi, A. J. Hussain, **C. Dobre**, Adaptive Pipelined Neural Network Structure in Self-aware Internet of Things, in *Big Data and Internet of Things: A Roadmap for Smart Environments*, Nik Bessis, Ciprian Dobre (Eds.), *Studies in Computational Intelligence*, Volume 546, pp 111-136, 2014.
- D13.** A.-C. Petre, C. Chilipirea, **C. Dobre**, Delay Tolerant Networks for Disaster Scenarios, in *Resource Management in Mobile Computing Environments Modeling and Optimization in Science and Technologies*, Springer, Vol. 3, pp 3-24, 2014.
- D14.** R.-C. Marin, R.-I. Ciobanu, **C. Dobre**, F. Xhafa, Techniques and Applications to Analyze Mobility Data, in *Inter-cooperative Collective Intelligence: Techniques and Applications*, Nik Bessis, Fatos Xhafa (Eds.), *Studies in Computational Intelligence*, Volume 495, Springer, pp. 203-237, 2014.
- D15.** F. Pop, **C. Dobre**, C. Negru, V. Cristea, Re-scheduling Service for Distributed Systems, in *Advances in Intelligent Control Systems and Computer Science, Advances in Intelligent Systems and Computing*, Vol. 187, pp. 423-437, Ed. Springer, ISBN: 978-3-642-32547-2, 2013.
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- D17.** V. Cristea, **C. Dobre**, F. Pop. Context-Aware Environments for the Internet of Things, in *Internet of Things and Inter-cooperative Computational Technologies for Collective Intelligence*, Nik Bessis, Fatos Xhafa,

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D19. D. Popescu, N. Popescu, C. Dobre. E-Frameworks to Optimize Public Administration Services, in Digital Democracy: Concepts, Methodologies, Tools, and Applications (3 Vols.), IGI Global, pp. 438-465, 2012.

D20. V. Cristea, F. Pop, C. Dobre, A. Costan. Distributed Architectures for Event-Based Systems, in Reasoning in Event-Based Distributed Systems, Sven Helmer, Alexandra Poulouvassilis, Fatos Xhafa (Eds.), Studies in Computational Intelligence, Volume 347, Ed. Springer, pp 11-45, 2011.

D21. C. Dobre. A Simulation Model for Large Scale Distributed Systems, in Simulation in Computer Network Design and Modeling: Use and Analysis, Hussein Al-Bahadili (Ed.), Ed. IGI Global, 2011.

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D24. F. Pop, C. Grigoras, A. Costan, C. Dobre, Valentin Cristea, *Tehnologii actuale in sistemele Grid*, Atelier de Lucru MEDIOGRID, Vol.1, ISBN: 973-713-090-1, Ed. Mediamira, pp. 85-103, Cluj-Napoca, Romania, 2006.

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Ris2. D. G. Reina, P. Ruiz, R.-I. Ciobanu, S. L. Toral, B. Dorrnsoro, C. Dobre, A Survey on the Application of Evolutionary Algorithms for Mobile Multihop Ad Hoc Network Optimization Problems, in International Journal of Distributed Sensor Networks (ISSN: 1550-1329), Volume 2016 (2016), Article ID 2082496, 13 pages, 2016. WOS:000370745300001, IF: 0,67

Ris3. S. Toral, C. Dobre, B. Dorrnsoro, M. Gunes, DG. Reina, Computational Intelligence in Wireless Sensor and Ad Hoc Networks, in International Journal of Distributed Sensor Networks (ISSN: 1550-1329), Volume 2016 (2016), Article ID 7049593, 2016. WOS:000374042300001, IF: 0,67

Ris4. F. Pop, R.-I. Ciobanu, C. Dobre, Adaptive Method to Support Social-based Mobile Networks Using a PageRank Approach, in Concurrency and Computation: Practice and Experience (ISSN: 1532-0634), Volume 27, Issue 8, pages 1900–1912, 10 June 2015 (DOI: 10.1002/cpe.3103). WOS:0003533518000061,00

Ris5. M.-C. Nita, F. Pop, C. Voicu, C. Dobre, F. Xhafa, MOMTH: multi-objective scheduling algorithm of many tasks in Hadoop, in Cluster Computing (ISSN: 1386-7857), Vol. 18, Issue 3, pp 1011-1024, Sep. 2015 (DOI: 10.1007/s10586-015-0454-8). WOS:000361897200002, IF: 1,51

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Ris7. R.-I. Ciobanu, R.-C. Marin, C. Dobre, V. Cristea, Interest-awareness in data dissemination for opportunistic networks, in Ad Hoc Networks (ISSN: 1570-870), Vol. 25, Part B, pp. 330–345, February 2015 (DOI: 10.1016/j.adhoc.2014.07.004). WOS:000347756600004, IF: 1,53

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- Ris9.** F. Pop, C. Dobre, V. Cristea, N. Bessis, F. Xhafa, L. Barolli, Reputation-guided evolutionary scheduling algorithm for independent tasks in inter-clouds environments, in *Int. J. of Web and Grid Services* (ISSN: 1741-1106), Vol.11, No.1, pp.4 - 20, 2015 (DOI: 10.1504/IJWGS.2015.067159). WOS:000351951500002, IF: 0,76
- Ris10.** F. Pop, C. Dobre, D. Comaneci, J. Kolodziej, Adaptive scheduling algorithm for media-optimized traffic management in software defined networks, in *Computing* (ISSN: 0010-485X), Springer (online), Vol. 98, Issue 1-2, pp. 147-168, Jan. 2016 (DOI: 10.1007/s00607-014-0406-9). WOS:000368104400008, IF: 0,59
- Ris11.** R.-I. Ciobanu, C. Dobre, M. Dascalu, S. Trausan-Matu, V. Cristea, SENSE: A Collaborative Selfish Node Detection and Incentive Mechanism for Opportunistic Networks, in *Journal of Network and Computer Applications* (JNCA) (ISSN: 1084-8045), Vol. 41, pp. 240–249, May 2014. WOS:000335629300022, IF: 2,23
- Ris12.** R.-I. Ciobanu, D. Reina, C. Dobre, S. Toral, P. Johnson, JDER: A history-based forwarding scheme for Delay Tolerant Networks using Jaccard Distance and Encountered Ration, in *Journal of Network and Computer Applications* (ISSN: 1084-8045), Vol. 40, pp. 279–291 (DOI: 10.1016/j.jnca.2013.09.012), April 2014. WOS:000334002900025, IF: 2,23
- Ris13.** C. Dobre, F. Xhafa, Intelligent Services for Big Data Science, in *Future Generation Computer Systems* (ISSN: 0167-739X), Special Issue: Big Data Science, Vol. 37, pp. 267–281 (DOI: 10.1016/j.future.2013.07.014), July 2014. WOS:000337931200026, IF: 2,79
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- Rio3.** C. Chilipirea, A.-C. Petre, C. Dobre, F. Pop, Enabling Mobile Cloud Wide Spread through an Evolutionary Market-based Approach, in *IEEE Systems Journal* (ISSN: 1932-8184), IEEE, Vol. PP, Issue 99, pp. 1-8, 2015. (indexare IEEE Xplore Digital Library)
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- Rio8.** **C. Dobre**, A cluster-enhanced fault tolerant Peer-to-Peer System, in International Journal of Innovative Computing, Information and Control (IJICIC) (ISSN: 1349-4198), Vol. 10, No. 2, pp. 417-436, April 2014. (indexare Inderscience Online, Google Scholar)
- Rio9.** C. Chilipirea, A.-C. Petre, **C. Dobre**, Energy-Aware Social-based Routing in Opportunistic Networks, in International Journal of Embedded Systems (IJES) (ISSN: 1741-1068), Special Issue on Intelligent Technologies for Future Information Network Systems, Accepted for publication 2014. (indexare Inderscience Online, Google Scholar)
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List of grants and contracts (selection from the last 10 years)

National projects:

- 2014-2017: MobiWay – Platformă Integrată pentru Sistemele de Transport Inteligent ale Viitorului, Proiect de parteneriat CNCISIS-PN-II-PT-PCCA-2013-4, Contract no.. 16 / 2014. Project Director, Value: 785.000 RON.
- 2010-2013: CAPIM - Context-Aware Platform using Integrated Mobile Services, Contract de Cercetare Postdoctorală nr. EXCEL N1/5 din 01.05.2010, Project manager, Contract POSDRU/89/1.5/S/62557 "Excelență în cercetare prin programe postdoctorale în domenii prioritare ale societății bazate pe cunoaștere" (EXCEL), 2010. Project Director.
- 2015-2017: DataWay - Real-time Data Processing Platform for Smart Cities: Making sense of Big Data, PN-II-RU-TE-2014-4-2731, Project Director: Conf.dr.ing. Florin Pop.
- 2014-2016: CLUeFARM - Information system based on cloud services, accessible through mobile devices, for quality improvement of products and business development in farms, PNII, ID. 29/2014, Project Director: Prof.dr.ing. Valentin Cristea.

- 2012-2013: SideDOWN - Smart Internet Data Downloader and Aggregator, National PNII - Servicii suport pentru inovare – Cecuri de , ID: PN-II-IN-CI-2012-1-0324, Benef.: SC Essentials Systems SRL.
- 2013-2015: Pregătirea Sistemului Național de e- Administrație în România - SMIS 32612, cofinanțat din Fondul Social European, prin Programul Operațional Dezvoltarea Capacității Administrative (PO-DCA), Project Director: Marius Dorian Nicolăescu.
- 2012-2013: Proiect HEART (tip PC): "High Performance Computing of Personalized Cardio Component Models" (Contract UEFISCDI - 130/2012).
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- 2011-2013: OIPOS DRU, Proiect Multi-Regional, Axa: 1."Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere", ID: 57748, *Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă (INSEED)*, (Project Director: Prof.dr.ing. T. Borangiu).
- 2008-2011: Programul PN-II, Programul 4 "Parteneriate în domeniile prioritate", nr. 278/07.11.2008, *INFOSTRUCTURE: Advanced electronic services platform for optimizing and adapting businesses to real-time economy* (Project Director: Mihai Tănase, UTI București).
- 2009-2011: Programul Operațional POS CCE, Axa Prioritară AP2: Creșterea Competitivității Economice prin Cercetare - Dezvoltare și Inovare, Contract 51 / 11.05.2009, *GEEA – Centru de resurse GRID multi-corE de înaltă performanță pentru suportul cercetării* (Project Director: Prof.dr.ing. N. Țăpuș).
- 2008-2011: POS CCE nr. 154/323 cod SMIS – 4428, proiect co-finanțat prin Fondul European de Dezvoltare Regională, "Investiții pentru viitorul dumneavoastră", *Platformă de eLearning și curriculum eContent pentru învățământul superior tehnic*, (Project Director: Prof.dr.ing. N. Țăpuș).
- 2008–2011: Programul PN-II IDEI, *DEPSYS – Modele și Tehnici de Asigurare a Fiabilității, Siguranței, Disponibilității și Securității Sistemelor Distribuite de Mari Dimensiuni*. Project Director: Prof. Dr. Ing. Valentin Cristea.
- 2008–2010: Programul PARTENERIATE IN DOMENIILE PRIORITARE, *PEGAF – Platformă experimentală Grid pentru dezvoltarea de aplicații orientate pe fluxuri de activități cu alocarea dinamică a resurselor*, coordonator ICI București. Project Director: Dr. Ing. Gabriel Neagu.
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- 2007–2008: Grant CNCISIS Tip A 154/2006, *Planificarea Descentralizată în Medii GRID Bazată pe Arhitectura Serviciilor WEB*. Project Director: Prof. Dr. Ing. Valentin Cristea.
- 2004–2006: Grant CNCISIS Tip A 288/2005, *Gestiunea resurselor și Planificarea Activităților în Sistemele Distribuite Bazate pe Tehnologiile Grid*. Project Director: Prof. Dr. Ing. Valentin Cristea.
- 2004–2006: Grant INFOSOC, *Monitorizarea distribuită a middleware-ului și a aplicațiilor din infrastructura Grid națională*, acr. MON-I. Project Director: Prof. Dr. Ing. Valentin Cristea.
- 2005–2008: Grant INFOSOC, *MedioGRID – Prelucrarea grafică paralelă și distribuită pe structura Grid a datelor geografice și de mediu*, proiect CEEX 2005, MODUL-1, tip P-CD, coordonator UT Cluj. Project Director: Dr. Ing. Gabriel Neagu.
- 2005–2008: Grant RELANSIN, *GridMOSI – Organizație virtuală în tehnologie Grid pentru modelare, simulare și optimizare de înaltă performanță*, Proiect CEEX, coordonator ICI București. Project Director: Prof. Dr. Ing. Gabriel Neagu.
- 2005–2008: Grant RELANSIN, *Monitorizarea distribuită a resurselor din infrastructura Grid națională*, acr. MON-R. Project Director: Prof. Dr. Ing. Nicolae Tapus.
- 2005 – 2006: *EquiPoly, Creating a modern R&D infrastructure for advanced Grid computing and a testbed for various technologies*, IBM Project in the Equinox Scholar program.

International projects:

- 2014-2017: ICT COST Action IC1406, "*High-Performance Modelling and Simulation for Big Data Applications*" (cHiPSet), project EU COST.
- 2013-2017: ICT COST Action IC1303, "*Algorithms, Architectures and Platforms for Enhanced Living Environments*" (AAPELE), project EU COST.
- 2016-2020: COST Action CA15127, "*Resilient communication services protecting end-user applications from disaster-based failures* (RECODIS)".
- 2016-2020: COST Action CA15140, "*Improving Applicability of Nature-Inspired Optimisation by Joining Theory and Practice* (ImAppNIO)".
- 2016-2019: Data4Water - *Excellence in Smart Data and Services for Supporting Water Management*, H2020-TWINN-2015, Director: Prof.dr.ing. Mariana Mocanu (UPB).
- 2013-2014: SideSTEP - *Scheduling Methods for Dynamic Distributed Systems: a self-* approach*, International PNII - Cooperări Bilaterale, ID: PN-II-CT-RO-FR-2012-1-0084, Benef.: UEFISCDI.
- 2013-2017: ICT COST Action IC1302, "*Semantic keyword-based search on structured data sources*" (KEYSTONE), project EU COST.
- 2010-2013: FP7-REGPOT-2010-1, *ERRIC -Empowering Romanian Research on Intelligent Information Technologies*, ID: 264207, Project Director: Prof.dr.ing. Adina Magda Florea.
- 2008 – prezent: *FP7 - SEE-GRID-SCI eInfrastructure for regional eScience*, IP project FP7, coordinator național ICI.
- 2008 – prezent: *FP6 EGEE-III: Enabling Grids for E-science*, EU FP6, national coordinator ICI.
- 2005 – 2008: *FP6 EU-NCIT – NCIT leading to EU IST excellency*, EU FP6, coordinator NCIT-UPB. Project Director: Prof. Dr. Ing. Nicolae Țăpuș.
- 2005 – 2008: *FP6 SEE-GRID-II South-Eastern European Grid-enabled eInfrastructure Development*, EU FP&, coordinator național ICI.
- 2005 – 2008: *FP6 EGEE-II: Enabling Grids for E-science*, EU FP6, coordinator național ICI.