

List of papers, articles, presentations and projects

Associate Professor PhD Florin Codruț NEMȚANU

PhD Thesis:

T1 Florin Codruț Nemțanu – *Study on Implementation of Intelligent Transport Systems – Architecture*. Coordinator: professor Corneliu Mihail Alexandrescu - 2010

Books:

Ca1 Gabriela Rodica Hrin, C.M.Alexandrescu, A.Eșanu, M.Minea, F. Nemțanu ș.a. – *Îndrumar privind sistemele inteligente de transport. Concepte, funcții, arhitecturi, sisteme, standarde.*, ICI - CEPETET-U.P.B.- MLPTL - ITS Romania, Ed. TRIUMF, ISBN 973-85872-3-9, nr. pagini 62

Ca2 Luigi Obreja, Octavia Dobre, Florin Codruț NEMȚANU “Sisteme de telecomanda distribuite – baze de date de tip relational” (curs) UPB 2001

Ca3 Luigi Obreja, Florin Codruț NEMȚANU “Sisteme de telecomanda – Telecomanda Instalatiilor Fixe de Tractiune Electrica – Indrumar de Laborator “, UPB 2001

Cb1 Schlingensiepen, J.; Mehmood, R.; Nemțanu, F. C Chapter Autonomic Transport Management Systems—*Enabler for Smart Cities in Book: Intelligent Transportation Systems – Problems and Perspectives* Springer DOI 10.1007/978-3-319-19150-8 - august 2015

Cb2 Dorin Dumitrescu (coord.), Florin Codruț NEMȚANU si altii, “Manual RIS”, Editura Nautica, Constanta, 2011, ISBN 978-606-8105-59-8;

Cb3 Alexandru CHIVU, Florin Codruț NEMȚANU, “Protocoale de Comunicatii Utilizate in Modelul TCP/IP pentru Securitatea Informatiei”, Editura Printech, Bucuresti, 2004, ISBN 973-652-992-4;

Cb4 Schlingensiepen, J.; Nemțanu, F. C; Marinov, M - Chapter "Systematic and customer driven approach on cost efficient improving interlocking and signalling in train transport" - *Railway Transport - Systems Approach* Editor: Śladkowski Aleksander - Springer - DOI 10.1007/978-3-319-51502-1; Hardcover ISBN 978-3-319-51501-4; eBook ISBN 978-3-319-51502-1;

Scientific papers in ISI and BDI Journals

Ris1. A. M. N. Mocofan, R. Ghiță, V. R. Tomás López, and F. C. Nemțanu, “Quality of services solution for efficient communication within a distributed Urban Traffic Control

system," *UPB Scientific Bulletin, Series C: Electrical Engineering*, vol. 78, no. 1, pp. 175–186, 2016 WOS:000388730000014

- Ris2.** Nemtanu F.C., Costea I.M., Dumitrescu C. – *Spectral Analysis of Traffic Functions in Urban Areas* – Journal PROMET Traffic&Transportation 2015 WOS:000368321400003
- Ris3.** Dumitrescu, C; Costea, IM; Nemtanu, FC; Stan, VA; Gheorghiu, AR - *APPLICATION OF THE WAVELET TRANSFORM IN MACHINE-LEARNING* - University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics, Volume: 7, Issue: 4, Pages: 167-178, Published: 2014 WOS:000346133600017
- Ris4.** Mocofan A.M.N., Ghita R., Lopez V.R.T. and Nemtanu F.C. *Comparative Assessment of Traffic Control Parameters within an UTC-distributed System*, Journal of Transportation Engineering, Volume 140, Issue 3, 2014, WOS:000332660000002
- Ris5.** Franklin, F., Nemtanu, F., & Teixeira, P. F. (2013). **Rail infrastructure, ITS, access charges and high-speed rail**. *Research in Transportation Economics*, Volume 41, Issue 1, pages 31-42, May 2013, Elsevier Publishing House WOS:000209271400004
- Ris6.** Minea Marius, Nemțanu Florin Codruț, *Intelligent urban traffic signalling infrastructure with optimised intrinsic safety* INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, CCC PUBL-AGORA UNIV Oradea, Vol. 1. 2006 WOS:000203014800052
- Ris7.** Iordache, Valentin; Cormos, Angel Ciprian; Nemtanu, Florin Codrut; Lopez, Vicente Ramon Tomas - *Minimizing Costs through Transport Route Optimization using Up-To-Date Road Traffic Information* Valahian Journal of Economic Studies Volume: 3 Issue: 3 Pages: 85-92 Number of pages: 8 Publication year: 2012 <http://search.proquest.com/docview/1400195566?accountid=15533>
- Ris8.** Beldescu, Mihnea Gabriel; Cormos, Angel Ciprian; Iordache, Valentin; Nemtanu, Florin Codrut; Timnea, Radu Serban; *The influence of Data Accuracy, Measured using RMS Error, on the Costs of a Public Transport Operator - Valahian Journal of Economic Studies*, Volume: 4, Issue: 3, Pages: 101-106, 2013 - <http://search.proquest.com/docview/1540957758?accountid=15533>
- Rno1.** Nemțanu Florin Codruț **Arhitectura Sistemelor Inteligente de Transport** Revista Transurb URTP - Ianuarie-Februarie 2003. - p. 18.
- Rno2.** Nemțanu Florin Codruț , **Hybrid Simulation of the Equipment Specific to the Intelligent Transport Systems**, EEA Journal, Editura Electra – ICPE, Vol.3, Nr. 57, iulie-septembrie 2009, București. (BDI: Copernicus)
- Rno3.** Nemțanu Florin Codruț, Iordache Valentin, Beldescu Mihnea **Dezvoltarea sistemelor cooperative și impactul asupra sistemului de transport rutier**, Simpozionul științific PROGRESUL TEHNOLOGIC - REZULTAT AL CERCETĂRII – AGIR, București, 29 aprilie 2011.
- Rno4.** Nemțanu Florin Codruț, Iordache Valentin, Cormoș Ciprian **Improving freight operations and planning by applying data mining techniques over data collected from intelligent transport systems**, Supply Chain Management for Efficient Consumer Response (SCM 4 ECR), 12–14 May 2011, Universitatea VALAHIA din Târgoviște, România.

Papers in ISI and BDI Conference

- Vis1.** F. C. Nemtanu, Marius Minea, Dorin Buretea, Ilona Costea - Development of Romanian cities based on a European smart city concept - Strategica International

- Vis2.** F. Nemtanu, J. Schlingensiepen, and D. Buretea, "Mobility as a service in smart cities," in RESPONSIBLE ENTREPRENEURSHIP: VISION, DEVELOPMENT AND ETHICS, A. Zbucea and D. Nikolaidis, Eds. 2016, pp. 425–435. WOS:000391259600032
- Vis3.** F. C. Nemtanu, M. Minea, and I. M. Costea, "Active and Dynamic Reliability Measures Based on Autonomic Behaviour of ITS," In Proceedings of the Third International Conference on Traffic and Transport Engineering (ICTTE), O. Cokorilo, Ed. 2016, pp. 880–885. WOS:000391016300125
- Vis4.** F. C. Nemtanu, I. M. Costea, I. Badescu, V. Iordache, and J. Schlingensiepen, "The framework of using models for comparative assessment of traffic sensors," in 2016 IEEE 22nd International Symposium for Design and Technology and Electronic Packaging (SIITME), Oradea, ROMANIA, 2016, pp. 200–204. WOS:000390557400042
- Vis5.** C. Dumitrescu, I. M. Costea, F. Nemtanu, I. Badescu, and A. Banica, "Developing a multi sensors system to detect sleepiness to drivers from transport systems," in 2016 IEEE 22nd International Symposium for Design and Technology and Electronic Packaging (SIITME), Oradea, ROMANIA, 2016, pp. 175–178. WOS:000390557400036
- Vis6.** J. Schlingensiepen, F. Nemtanu, and R. Mehmood, "Autonomic Transport Management Systems-Enabler for Smart Cities, Personalized Medicine, Participation and Industry Grid/Industry 4.0," in INTELLIGENT TRANSPORTATION SYSTEMS - PROBLEMS AND PERSPECTIVES Studies in Systems Decision and Control Publisher SPRINGER INT PUBLISHING AG, GEWERBESTRASSE 11, CHAM, CH-6330, SWITZERLAND ISSN: 2198-4182 INTELLIGENT TRANSPORTATION SYSTEMS - PROBLEMS AND PERSPECTIVES, vol. 32, A. Sladkowski and W. Pamula, Eds. 2016, pp. 3–35. WOS:000381768100002
- Vis7.** Minea Marius, Nemțanu Florin Codruț și Stan Valentin, *Establishing communications needs for the urban traffic and public transport integrated system in Bucharest* IEEE Conference NIS. - Nis : IEEE, 2005. - Vol. 1. WOS:000233336900055
- Vis8.** Jörn Schlingensiepen, Rashid Mehmood, Florin Codruț Nemtanu, Mihai Niculescu *Increasing sustainability of road transport in European cities and metropolitan areas by facilitating autonomic road transport systems (ARTS)*, International Conference on Sustainable Automotive Technologies ICSAT 2013, 25-27 September 2013, Ingolstadt Germany WOS:000345579300020
- Vis9.** IM Costea, FC Nemtanu, C Dumitrescu, CV Banu, GS Banu, *Monitoring system with applications in road transport* Design and Technology in Electronic Packaging (SIITME), 2014 IEEE 20th INSPEC number 14779741 10.1109/SIITME.2014.6967013 IEEE Xplore WOS:000358258300025
- Vis10.** Jörn Schlingensiepen, Rashid Mehmood, Florin Codruț Nemtanu, *Framework for an Autonomic Transport System in Smart Cities*, CYBERNETICS AND INFORMATION TECHNOLOGIES • Volume 15, No 5, ISSN: 1311-9702; Online ISSN: 1314-4081, DOI: 10.1515/cait-2015-0016 BULGARIAN ACADEMY OF SCIENCES 2015 WOS:000367473800005
- Vis11.** Nemțanu Florin Codruț și Dorin Dumitrescu, **The national architecture of road intelligent transport systems in Romania**, ITS World Congress London UK. - London : paper 1451, 2006. ITRD E134746 (Transport Research Board TRID, TRIS and ITRD data bases) - <http://trid.trb.org/view/2006/C/841372>
- Vis12.** Dumitrescu Dorin, Nemțanu Florin, Dumitrescu Sorin, **ITS Road Map Deployment in a New EU Member State–Romania Case Study**, Intelligent Transport Systems World Congress. - Stockholm : Ertico ITS Europe, 2009 – accession number 01149593, (Transport Research Board TRID, TRIS and ITRD data bases) <http://trid.trb.org/view/906509>

- Vis13.** Nemțanu Florin, Dumitrescu Dorin și Niculescu Mihai, **Development of ICT Infrastructure in Romania - EasyWay Action**, Intelligent Transport Systems World Congress. - Stockholm : Ertico ITS Europe, 2009 - accession number 01148384 (Transport Research Board TRID, TRIS and ITRD data bases)
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- Vis15.** Luigi-Gabriel OBREJA, Florin-Codrut NEMTANU *Criteria for Evaluating the Effectiveness of Passenger Information Displays*, U.P.B. Sci. Bull., Series D, Vol. 77, Iss. 3, 2015 ISSN 1454-2358 <http://www.scopus.com/inward/record.url?eid=2-s2.0-84944871161&partnerID=40&md5=c66448056c5aa66b4cb9cf8d9dcf2329>
- Vis16.** Florin Codruț Nemțanu, Dorin Laurențiu Burețea, Luigi Gabriel Obreja *Comparative Assessment of Virtual Track Circuit Based on Image Processing* - Urban Rail Transit Journal, 2015 <http://link.springer.com/article/10.1007/s40864-015-0013-x>
- Vis17.** O Tomescu, VR Tomás López, FC Nemțanu, I Bățroș - *Traffic Signal Green-Wave Control Strategy Based on Drivers' Behaviors* Analele Universității Eftimie Murgu Reșița. Fascicula de Inginerie, 146-156, 2011
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- Vi1.** Nemțanu Florin Codruț, Minea Marius și Buretea Dorin; *The Intelligent Transportation Systems and Services (ITS) a main component of information approach of Society: the development of the ITS on the base of National ITS Architecture* ICC 2004. - Oradea : University of Oradea, 2004. - pg. 267-271.
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- Vi3.** Nemțanu Florin Codruț, Minea Marius și Timnea Radu, *The ITS Architecture one of the Most Important Component for Planning and Developing of the Intelligent Transportation Systems and a New Approach of the information and Communication Systems in Transport Field*, International Congress CONAT 2004. - Brasov : Universitatea Transilvania din Brasov, 2004.
- Vi4.** Alexandrescu Corneliu Mihail, Nemțanu Florin Codruț și Minea Marius *The components of river information services architecture - security architecture* NAV-MAR-EDU. - Constanța : Academia Navală Mircea cel Batrân, 2005.
- Vi5.** Minea Marius, Alexandrescu Corneliu Mihail și Nemțanu Florin Codruț *Information services integration for maritime and inland navigation in the context of EU standards* NAV-MAR-EDU 2005. - Constanța : Academia Navală Mircea cel Batrân, 2005.
- Vi6.** Nemțanu Florin Codruț, Marius Minea și Radu Timnea *The development of Public Transport Management System based on ITS Architecture*; ITS 05. - Praga : ITS Czech, 2005.

- Vi7.** Nemțanu Florin Codruț și Minea Marius *The development of ITS architecture for urban transport - new components and new relations* [Conferință] // Transport Systems Telematics - 5th International Conference. - Katowice-Ustron : Sylesian University, 2005.
- Vi8.** Nemțanu Florin Codruț, Alecu Antoanela și Ciobanu Oana; *The Architecture of IT Systems for Transports* SNET05. - Bucharest : Politehnica University of Bucharest, 2005.
- Vi9.** Minea Marius, Nemțanu Florin Codruț. *Integration of ITS Systems for Urban Traffic Management in Several Cities of Romania.*, XVI International Scientific Conference „Transport 2006”, 9-10 nov. 2006, Higher School of Transport, Sofia, Bulgaria, sect. V35-40, ISBN 10: 954-12-0130-X, ISBN-13: 978-954-12-0130-5
- Vi10.** Nemțanu Florin Codruț, Marius Minea *New components of ITS functional architecture: mobility management and safety and security functional areas* European ITS Congress 2007 Aalborg Denmark. - Aalborg : paper 2393, 2007.
- Vi11.** Minea Marius, Nemțanu Florin Codruț, *Building the ITS infrastructure for urban areas in Romania*, European ITS Congress 2007 Aalborg Denmark. - Aalborg : paper 2405, 2007.
- Vi12.** Valentin IORDACHE, Angel Ciprian CORMOȘ, Florin Codruț NEMȚANU, Andrei Razvan Gheorghiu, *The evaluation of a method for optimizing travel route cost on highways*, Proceedings of the 15th International Conference on Automatic Control, Modelling & Simulation (ACMOS 13), Brașov, Romania, June 1-3, 2013, page(s). 276 – 282, ISBN: 978-1-61804-189-0, ISSN 1790-5117
- Vi13.** Florin Nemțanu, Mirela Vonica-Radutiu (Nemțanu), *Intelligent Transport System an Important Tool of Corporate Sustainable Responsibility for Transport Businesses*, SCM 4 ECR 2013 Conference, Valahia University of Targoviste, May-June 2013
- Vi14.** C. K. Banica, C. Seritan, I. M. Moise and F. C. Nemțanu, *Techniques for Analyzing the Variance of the Heart Rhythm within the Time-Frequency Area* 36th International Spring Seminar on Electronics Technology - Automotive Electronics Alba Iulia, Romania Aeternitas 978-606-613-064-6
- Vi15.** F. C. Nemțanu, I. M. Moise and C. K. Banica, *Hybrid Simulation in Intelligent Transportation Systems* 36th International Spring Seminar on Electronics Technology - Automotive Electronics Alba Iulia, Romania Aeternitas 978-606-613-064-6 2013
- Vi16.** F. C. Nemțanu, I. M. Moise, M. G. Beldescu and V. Iordache, *Model of Cloudified Traveller Information System Based on Petri Nets* 36th International Spring Seminar on Electronics Technology - Automotive Electronics Alaba Iulia, Romania Aeternitas 978-606-613-064-6
- Vi17.** Florin Nemțanu *TMC and monitoring technologies on A1 motorway – from local to national level*, Workshop Best Practices on Deployment of Monitoring Technologies and Services, European ITS Platform, 12-13 September 2013 Espoo, Finland.
- Vi18.** Ilona Madalina Costea, Catalin Dumitrescu, Claudiu Virgil Banu, Florin Codruț Nemțanu Automatic Pedestrian Detection System – Support for Autonomic Cooperative Systems ARTS ECR Conference 2015 Autonomic Road Transport Support systems Early Career Researcher Conference, Malta, May 2015
- Vi19.** Valentin Iordache, Florin Codruț Nemțanu, Angel Ciprian Cormos *Autonomic Integrated Parking System for SmartCities* ARTS ECR Conference 2015 Autonomic Road Transport Support systems Early Career Researcher Conference, Malta, May 2015

Florin

- Vi20.** Florin Codrut Nemtanu, Mirela Ileana Nemtanu, Joern Schlingensiepen *The Impact of Corporate Social Responsibility on Smart Cities* The European Business and Management Conference IAFOR June 2015
- Vi21.** Florin Codrut Nemtanu, Ilona Madalina Costea, Dorin Laurentiu Buretea *Measures to increase the reliability of intelligent transport systems* 21st International Symposium for Design and Technology in Electronic Packaging (SIITME) IEEE Brasov, November 2015
- Vi22.** Florin Codrut Nemtanu, Valentin Iordache, Ciprian Cormos *Modelling of intelligent sensors applied in intelligent transport systems* 21st International Symposium for Design and Technology in Electronic Packaging (SIITME) IEEE Brasov, November 2015

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- B1.** Buretea Laurențiu Dorin, Cormoș Angel Ciprian, Nemțanu Florin Codruț, Minea Marius, Timnea Radu Șerban, Iordache Valentin, Gheorghiu Răzvan - Andrei, - *Sistem și metodă pentru asistarea în trafic a unui conducător de autovehicul (In traffic driver assistance system and method)* - 128955 A0 (51) G08G 1/095 (2006.01); G08G 1/0962 (2006.01), RO-BOPI 10/2013, din 30.10.2013
- E1.** Nemtanu Florin *Conclusion for "Data quality practices"* - Vienna : EasyWay - Data Quality Workshop - AustriaTech, 2008.
- E2.** Nemțanu Florin Codruț, *ICT Infrastructure in Romania and Ithaca; Connections with EasyWay*, 1st EasyWay European Conference. - Giardini Naxos Taormina, Italy : Casa Editrice La Fiaccola Srl, 2008. - Vol. proceedings.
- E3.** Nemțanu Florin Codruț, Dumitrescu Dorin și Davidescu Nicoleta; *Relations between road network map and the level of development for ICT Infrastructure Workshop - Best Practices in Monitoring*. - Lillehammer, Norway : ICT Expert Group, 2009. - Vol. website.
- E4.** Nemțanu Florin Codruț, *Connected ICT Infrastructure in Romania and Ithaca*, 2nd EasyWay Forum Viena 2009, www.easyway-its.eu
- E5.** Nemțanu Florin; *Connected ICT Infrastructure for ITS in Romania (the Base for Pan-European ITS Services)* [<http://ants.inf.um.es/its/murcia09/>]. - Murcia, Spain : University of Murcia ; University of Murcia, June 2009.
- E6.** Nemțanu Florin Codruț, *The context to ensure the continuity of ITS Services in Romania, Workshop on Continuity of ITS Services*, Bucharest, Romania septembrie 2010
- E7.** Nemțanu Florin Codruț, *ICT Infrastructure in EasyWay/ITHACA – Case of ITS Deployment in Romania*, EasyWay Forum Lisabona, Portugalia 2010, www.easyway-its.eu
- E8.** Nemțanu Florin Codruț, Andrei Cristian, *Romanian ITS Strategy and the Network of Traffic Management Centres in Romania*, EasyWay Forum Lisabona, Portugalia 2010, www.easyway-its.eu

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- E10.** **Florin Codrut Nemtanu** *New monitoring technologies Forum - European ITS Platform + Rome, Italy Nov 2015*

- F1.** Nemțanu Florin Codruț and all, Raport tehnic al fazei a I-a - Proiect de cercetare 7C06 - București : UPB-CEPETET, 2007.
- F2.** Nemțanu Florin and all NARITS Raport tehnic al fazei a II-a - București : UPB - CEPETET, 2007.
- F3.** Nemțanu Florin and all NARITS Raport tehnic al fazei a III-a - București : UPB - CEPETET, 2007.
- F4.** Nemțanu Florin and all NARITS Raport tehnic al fazei a IV-a - București : UPB - CEPETET, 2007.
- F5.** Nemțanu Florin and all NARITS Raport tehnic al fazei a VI-a - București : UPB - CEPETET, 2007.
- F6.** Nemțanu Florin Codruț și Dumitrescu Dorin; Results of NARITS project and National ITS Action Plan Workshop on Intelligent Transport Systems - Romanian Office for Science and Technologies. - Brussels, Belgium : UPB-CEPETET, 2008. - Vol. CD.

R&D Projects:

- Pi1.** EU ITS Platform - EU EIP cod proiect 2014-EU-TM-0317-S finantat in cadrul programului Connecting Europe Facility - <https://ec.europa.eu/inea/en/connecting-europe-facility/cef-transport/projects-by-country/multi-country/2014-eu-tm-0317-s> - Project Manager of ITS Romania
- Pi2.** European ITS Platform + - 2014-2015 - 2013-EU-50001-S <http://ec.europa.eu/inea/en/ten-t/ten-t-projects/projects-by-country/multi-country/2013-eu-50001-s> - Project Manager of ITS Romania – Coordinator of the activity 4.2 New and Improved Monitoring Technologies. - <https://www.easyway-its.eu/>
- Pi3.** European ITS Platform - 2012-EU-50005-S <https://ec.europa.eu/inea/en/ten-t/ten-t-projects/projects-by-country/multi-country/2012-eu-50005-s> Project Manager of ITS Romania
- Pi4.** EasyWay, Phase 2, 2009-EU-50000-M, <http://ec.europa.eu/inea/en/ten-t/ten-t-projects/projects-by-country/multi-country/2009-eu-50000-m> Project Manager of ITS Romania - pentru partea de cercetare si studii - <https://www.easyway-its.eu/> - competitie europeana
- Pi5.** SEE-ITS – South East Europe 2013-2015
- Pi6.** HeERO (Harmonised eCall European Pilot) Project – cercetator si reprezentant in International Steering Committee si WP leader, CIP-Pilot actions - Grant agreement no: 270906
- Pi7.** COMPRIS – River Information Services
- Pi8.** 2007-1974/001-001LE3 MULPRO – Leonardo da Vinci – ISSTE; 2007-2010;
- Pi9.** 238880–ICT PSP Grant Agreement – Intelligent and Efficient Travel Management for European Cities - InTIME; 2009-2012;

- Pi10.** National observer FRAME 2004-2008
- Pi11.** National observer eFRAME 2010 – 2012
- Pi12.** National observer esafetysupport 2005-2009
- Pi13.** National observer iCarsupport 2010-2012
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- Pn1.** CEEEX - 14X/09.2005 – Arhitectura nationala a sistemelor inteligente de transport pentru modul de transport rutier – NARITS. Program Cercetare de Excelență. București 2005-2008. Project coordinator
- Pn2.** Contract consultancy Primaria Ploiesti - DALI Centru modernizare management trafic - Contract Nr. 020279 / 10.11.2014 - ELSOL Project Manager
- Pn3.** 7C20/22.09.2004 – Soluții integrate de logistică pentru gestionarea activităților de transport rutier intern și internațional. Program Național AMTRANS. București 2004-2006. funcție ocupată în cadrul proiectului: director proiect
- Pn4.** 71-115 / 14.09.2007 - Managementul performanțelor referitoare la fiabilitate, disponibilitate, mentenabilitate și siguranță pentru un sistem dispecer feroviar, aliniat la cerințele standardelor europene privind sistemele feroviare – MANDIF, Programul 4 „Parteneriate în domenii prioritare”, 2007-2010
- Pn5.** 71-018-2/14.09.2007 - Sistem on-line de monitorizare a traficului rutier pentru asigurarea siguranței și fluentei circulației în aglomerații urbane și îmbunătățirea calității vieții – SAFETRAFF, Programul 4 „Parteneriate în domenii prioritare”, 2007-2010
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- Pn7.** CEEEX X2C23/09.2006 – Managementul riscului în cadrul unui sistem de centralizare electronică a stațiilor de cale ferată - MaRis. Program Cercetare de Excelență. București 2006-2008.
- Pn8.** CEEEX X2C25/09.2006 – Servicii avansate de informare și ghidare pentru conducători auto și călători utilizând hărți digitale – SAIGHID. Program Cercetare de Excelență. București 2006-2008.
- Pn9.** CEEEX 53 – Sistem Informatic pentru administrarea on-line a traficului urban, suport pentru mobilitatea persoanelor în condiții de confort și siguranță, componentă a dezvoltării durabile în context european – MONITRAF. Program Cercetare de Excelență. București 2006-2008.
- Pn10.** CEEEX 121/15.09.2006 Soluții inovative destinate vehiculelor inteligente pentru modernizarea și dezvoltarea transportului public în concordanță cu cerințele de mobilitate urbană durabilă (SMARTBUS); funcție ocupată în cadrul proiectului: director proiect. Program Cercetare de Excelență. București 2006-2008.
- Pn11.** CEEEX 160/09.2006 – Managementul integrat al resurselor în transportul public local - TRESMAN. Program Cercetare de Excelență. București 2006-2008.
- Pn12.** CEEEX - 14X/09.2005 – Arhitectura nationala a sistemelor inteligente de transport pentru modul de transport rutier – NARITS. Program Cercetare de Excelență. București 2005-2008.
- Pn13.** CEEEX - 45/09.2005 – Cresterea sigurantei intrinseci a infrastructurii de semnalizare rutiera , in contextul armonizarii cu normativele europene – ROSARO. Program Cercetare de Excelență. București 2005-2008.
- Pn14.** CEEEX - 7/09.2005 – Tehnologie informatica de simulare si analiza a fluxurilor de circulatie urbana, suport pentru managementul traficului, componenta a dezvoltarii durabile – TRAFICSIM. Program Cercetare de Excelență. București 2005-2008.
- Pn15.** CEEEX - 8/09.2005 – Servicii integrate mobile de informare pentru cetatean, suport pentru accesul la rețeaua de transport public urban – tehnologii de asistare într-o societate bazată pe cunoaștere - TRANSASIST. Program Cercetare de Excelență. București 2005-2008.
- Pn16.** CEEEX – X1C04/09.2005 – Echipamente moderne pentru alimentarea serviciilor auxiliare, agregate de conditionare a aerului și unități de comandă, reglare, diagnoză,

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- Pn19.** 1695/28.09.2004 – Sistem telematic avansat de informare a cetatenilor privind transportul public local. Sistem pilot. Program Național INFOSOC. București 2004-2006.
- Pn20.** 7C11/09.2004 – Platformă pilot avansată de management on-line a informațiilor cu privire la transportul și traficul rutier, în concordanță cu evoluția mediului socio-economic național și cerințele de integrare europeană – INFOTRAFIC. Program Național AMTRANS. București 2004-2006.
- Pn21.** 7C06/14.09.2004 – Sistem telematic avansat de management al prioritatilor transportului public local in intersectiile semaforizate. Sistem pilot demonstrative – PRIOTRANS. Program Național AMTRANS. București 2004-2006.
- Pn22.** 7C05/13.09.2004 – Sistem inteligent de management al resurselor în transportul multimodal de mărfuri. Sistem pilot demonstrativ – SINMAR-TMM. Program Național AMTRANS. București 2004-2006.
- Pn23.** 6C01/30.10.2003 – Sistem telematic avansat pentru informarea călătorilor transportului public local – Sistem Pilot (SICROM). Program Național AMTRANS. București 2003-2005.
- Pn24.** 1C01/2001 – Sistem de Optimizare, Monitorizare și Comerț Electronic în domeniul transportului rutier – SOMCET-Net. Programul Național AMTRANS. București 2001-2003.
- Pn25.** 1C09/2001 – Elaborarea Manualului ITS (Intelligent Transport Systems). Program Național AMTRANS. București, 2001.
- Pn26.** C6(C1-94 INF17) – Sistem Telematic Avansat de Management al Traficului Rutier Urban. Program INFOSOC. București, 2001.

Educational projects, grants and actions

- Po1.** Grant preparatory visit Erasmus – Universitatea Jaume I, Castellon, Spania – contract VP-09-E-292-B-ES –2010
- Po2.** Grant preparatory visit Erasmus – Universitatea Tehnica, Katowice, Polonia – contract VP2011- ERA-068-B-PL –2012
- Po3.** Erasmus Intensive Programme 2011/12: Intensive railway programme in Newcastle-upon-Tyne – coordonator
- Po4.** Erasmus Intensive Programme 2012/13: Intensive railway programme in Newcastle-upon-Tyne - coordonator
- Po5.** Coordonator Agreement Bilateral Erasmus cu Universitatea Jaume I, Castellon, Spania
- Po6.** Visiting researcher – Huddersfield University, UK – Cost Action TU1102
- Po7.** MC member COST TU1102 ARTS
- Po8.** MC member COST TU1302 SaPPART
- Po9.** Deputy leader al WG2 din cadrul actiunii COST TU1302 SaPPART
- Po10.** Member Open ITS - POSSE
- Po11.** Coordinator of ITS Master Programme, Transport Faculty, Politehnica University of Bucharest.