

## **ASTR secția 5**

# **Raport de activitate (forma finală) pentru anul 2013**

### **Cu privire la organizarea materialului**

- **raportul cuprinde trei părți**
  - **partea I organizată după punctajul trimis de la prezidiu**
    - 1. Premii obținute: interne și externe**
    - 2. Proiecte de cercetare-dezvoltare valorificate industrial**
    - 3. Proiecte de cercetare internaționale/europene**
    - 4. Sesiuni științifice (inter)naționale organizate prin implicarea secțiilor**
    - 5. Întâlniri cu mediul de afaceri**
    - 6. Manifestările științifice sub egida ASTR**
    - 7. Cărți/reviste publicate sub egida ASTR ;**
    - 8. Activitatea de pregătire prin doctorate**
  - **partea II cuprinzând probleme specifice secției**

Sprrijinirea de către membrii ASTR a publicațiilor științifice de specialitate, a forurilor economice din București, Timișoara, Cluj, Iași (membrii în comitetul de redacție, recenzenti, etc.: din țară sau din străinătate. Alte probleme organizatorice.

○ **partea III lucrările publicate de membrii secției, citări**

**Atenție** Pentru a evita repetarea unor nume (membri ai secției) la descrierea unor acțiuni vom folosi abrevierile următoare

Nicolae ALEXANDRU     **ALE-N**

Ion BĂNICĂ             **BAN-I**

Eugen BORCOCI        **BOR-E**

Silviu CIOCHINA        **CIO-S**

Vladimir CREȚU        **CRE-V**

Dan CRISTEA            **CRI-D**

Valentin CRISTEA       **CRI-V**

Victor CROITORU        **CRO-V**

Ioan JURCĂ              **JUR-I**

Ion LEȚIA                **LET-I**

Ioan NAFORNIȚĂ	<b>NAF-I</b>
Sergiu NEDEVSCI	<b>NED-S</b>
Adrian PETRESCU	<b>PET-A</b>
Mircea PETRESCU	<b>PET-M</b>
Ion STĂNCIULESCU	<b>STA-I</b>
Dumitru STANOMIR	<b>STA-D</b>
Alexandru ȘERBĂNESCU	<b>SER-A</b>
Nicolae ȚĂPUȘ	<b>TAP-N</b>
Gavril TODEREAN	<b>TOD-G</b>
Lucian VINȚAN	<b>VIN-L</b>
Biroul secției	<b>BIR-S</b>

## **Partea I**

### **1. Premii obținute: interne și externe**

#### **STA-D**

Primirea titlului de Profesor Emerit de la  
Universitatea Politehnica din București  
Primirea titlului de Doctor Honoris Causa al  
Universității Tehnice din Cluj-Napoca



Cluj-Napoca, 13 mai 2013

Domnului Prof.univ.dr.ing. *Dumitru STANOMIR*  
 Universitatea "Politehnică" București  
 Facultatea de Electronică, Telecomunicații și Tehnologia Informației  
 Bd. Iuliu Maniu 1-3, 061071, București sect. 6, România

Stimate domnule Prof.univ.dr.ing. *Dumitru STANOMIR*,

Suntem bucuroși să vă anunțăm că Senatul Universității, întrunit în ședința sa ordinară din 26 aprilie 2013,

Pe baza atribuțiilor sale stabilite prin Lege și Carta Universității, a propunerii directorului Departamentului de Bazele Electronicii, **Prof.dr.ing. Sorin HINTEA**, avizată favorabil de către Departamentul de Bazele Electronicii, de decanul Facultății de Electronică, Telecomunicații și Tehnologia Informației, **Prof.dr.ing. Dan PITICĂ**, de Consiliul Facultății, de Rectorul Universității Tehnice din Cluj-Napoca, **Prof.dr.ing. Aurel VLAICU** și de **Comisia permanentă a Senatului responsabilă pentru acordarea titlurilor onorifice**,

apreciind activitatea Domniei Voastre de colaborare cu Universitatea Tehnică din Cluj-Napoca, în special cu Facultatea de Electronică, Telecomunicații și Tehnologia Informației și Departamentul de Bazele Electronicii prin acțiuni de colaborare în domeniul electronicii și comunicațiilor, precum și excelența Dumneavoastră profesională și academică, contribuția Dumneavoastră remarcabilă la cunoașterea în domeniu, notorietatea Dumneavoastră științifică de anvergură europeană și mondială

a hotărât cu unanimitate de voturi să vă acorde titlul onorific de  
**"Doctor Honoris Causa"**  
**al Universității Tehnice din Cluj-Napoca**

Vă informăm de asemenea că titlul conferit presupune totodată acordarea calității de membru al comunității academice a universității, iar acceptarea lui înseamnă o onoare pentru noi și un angajament al Domniei Voastre de a sprijini eforturile spre excelență academică ale acestei comunități.

Data ceremoniei oficiale urmează să fie stabilită de comun acord.

Vă felicităm și ne dorim ca această ocazie să constituie o oportunitate pentru întărirea cooperării personale, precum și cea dintre universitatea dumneavoastră și universitatea noastră.

.....  
 Rector,

Prof.dr.ing. Aurel VLAICU



.....  
 Președinte al Senatului Universității,

Prof.dr.ing. Mihai ILIESCU

VIN-L

*„Diploma de excelență pentru activitatea științifică meritorie desfășurată în anul 2013”, Facultatea de inginerie, Universitatea „Lucian Blaga” din Sibiu, 19 decembrie 2013*

## **2.Proiecte de cercetare-dezvoltare valorificate industrial**

**CRE-V**

**2013**

Titlul proiectului: ***„Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și inginerești – DidaTec”***

**Cod Contract:** POSDRU/87/1.3/S/60891

**Durata:** 2012-2013

**Beneficiar:** Universitatea Tehnică din Cluj-Napoca

Proiect cofinanțat din Fondul Social European prin Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013

**Axa prioritară nr.1** „Educația și formarea profesională în sprijinul creșterii economice și dezvoltării societății bazate pe cunoaștere”

**Domeniul major de intervenție:** 1.3 „Dezvoltarea resurselor umane în educație și formare profesională”

**Rol:** Prof.dr.ing.***Vladimir-Ioan Cretu*** – mentor

## CRI-V

### Proiecte

CHANGE “Enabling Innovation in the Internet Architecture through Flexible Flow-Processing Extensions”, Project FP-7, GRANT AGREEMENT No 257422 - coordonator

ERRIC: “Empowering Romanian Research on Intelligent Information Technologies”, FP7-REGPOT-2010-1/264207 - membru echipa cercetare

Program strategic pentru promovarea inovarii in servicii prin educatie deschisa, continua (INSEED) ID proiect: 57748 - membru echipa

Prototype Cyberinfrastructure-based System for Decision-Making Support in Water Resources Management – CyberWater”, câștigat in cadrul Programului Parteneriate ? Competitie 2011 - membru echipa cercetare

## NED-S

1.“Cooperative Advanced Driving Assistance System Based on Smart Mobile Platforms and Road Side Units”, PCCA 18/2012, coordonator

2.“Perceptia multi scalara si multi modala a mediilor 3D dinamice prin fuziunea datelor de stereovizinea densa, flux optic dens si odometrie vizuala”, PCE 344/2011, director

3.“Modelarea continua de la micro la macro scara a materialelor avansate in fabricatia virtual”, PCCE 100/2010, coordonator local

4.“Cofinantare Pan-Robots”, program capacitati 224EU/2013, director

## VIN-L

**Lucian Vintan, Radu Chis - *Multi-objective optimization of an electric motor in the acceleration pedal of a car*, beneficiar: Continental Automotive Systems, R&D Sibiu Branch, 2013**

## 3. Proiecte de cercetare internațională/europene

### BOR-E

#### 1. Proiect European FP7 Integrated project

**ALICANTE, MediA Ecosystem Deployment through Ubiquitous Content-Aware Network Environments**

Grant agreement no.: 248652 , 19 parteneri din Europa; 2010- 2013,

UPB- Workpackage leader;

Director proiect – al echipei UPB: E.Borcoci

Echipe: E. Borcoci, R.Lupu, D. Niculescu, M.Vochin, R.Iorga, S.Zoican, S.Obreja, C.Cernat, V. Poenaru, M.Constantinescu, R.Badea

#### 2. Proiect CHIST-ERA propus si acceptat in 2013

**DISEDAN, „SERVICE AND USER-BASED DISTRIBUTED SELECTION OF CONTENT STREAMING SOURCE AND DUAL ADAPTATION” 2014- 2015**

Parteneri : WUT- Polonia, Univ. Bordeaux Franta, UPB- Romania

Director proiect – al echipei UPB: E.Borcoci

Echipe: E. Borcoci, S.Zoican, R.Badea, R.Iorga, S.Obreja, C.Cernat, M.Constantinescu, M.Vochin.

### CRI-D

· 2010-2013: **ATLAS** - Applied Technology for Language-Aided CMS - [official site](#). A project funded by the European Commission under the ICT Policy Support Programme, Grant Agreement 250467. ATLAS' goals were to establish an innovative software platform providing three online services for heterogeneous multilingual content management, equipped with natural language processing capabilities, including automatic annotation, summarisation, categorisation and machine translation. The collaborative, user-oriented, shared and interoperable services are:

- i-Publisher: Automatic processing of the Web content (categorisation, summarisation, annotation etc.);
- i-Librarian: The ability to easily create, organise and publish various types of documents;
- EUDocLib: A publicly accessible repository of EU documents, providing enhanced navigation and easier access to relevant documents in the user's language.

The technology was developed for 6 languages: Bulgarian, English, German, Greek, Polish and Romanian.

Partners:

- Tetracom Interactive Solutions, Sofia - coordinator
- German Institute for Artificial Intelligence, Saarbruecken
- Atlantis Consulting SA, Athens
- Institute for Bulgarian Language, Sofia
- Institute of Computer Science, Polish Academy of Sciences, Warsaw
- University of Hamburg
- "Alexandru Ioan Cuza" University of Iasi
- University of Zagreb
- Institute of Technologies and Development Foundation, Sofia

Value for UAIC: 98,341 EUR.

· 2011-2013: [METANET4U](#) - [official site](#) - an ICT-PSP project, Grant Agreement 270893. METANET4U was part of the [META-NET](#) Network of Excellence, a cluster of projects aiming at fostering the mission of META (the Multilingual Europe Technology Alliance), dedicated to building the technological foundations of a multilingual European information society. The goal of METANET4U was to contribute to the establishment of a pan-European digital platform that makes available language resources and services, datasets and software tools, for speech and language processing, and to support a new generation of exchange facilities for them. All resources and tools gathered during the project, documented and updated, were delivered through the network of open digital exchange platforms [META-SHARE](#). Partners:

- Faculty of Sciences, University of Lisbon - coordinator
- Instituto Superior Tecnico, Lisbon
- University of Manchester
- "Alexandru Ioan Cuza" University of Iasi
- Research Institute for Artificial Intelligence, Romanian Academy, Bucharest
- University of Malta
- Technical University of Catalonia
- Universitat Pompeu Fabra, Barcelona

Value for UAIC: 242,338 EUR.

## NAF-I

Participarea echipei conduse de NAF-I la programul European FP7 2011-2014 "ARTRAC Advanced Radar Tracking and Classification for Enhanced Road Safety " nr. 284740 Eur 126,030, program care este co-finantat de UEFISCDI, Program PC7, nr. 223EU/24.07.2013, 2013-2014

A fost depusă o propunere de proiect, din partea [Centrului de Cercetări în Prelucrarea Inteligentă a Semnalelor „Adelaida Mateescu”](#), în colaborare cu Thales-Alenia, la Agenția spațială europeană (ESA), în cadrul ANNOUNCEMENT OF OPPORTUNITY AO/1-7557/13/NL/SC 2nd CALL FOR OUTLINE PROPOSALS UNDER THE ROMANIAN INDUSTRY INCENTIVE SCHEME, intitulată “*Quality of Services Improvement for GNSS Localisation in Constraint Environment by Image Fusing Techniques (IMFUSING)*”.

## **NED-S**

1. “Co-operative Mobility Services of the Future – CoMoSeF”, contract inovare (Celtic Plus / Eureka), contract 322E/2011, coordonator local
2. “PAN-Robots: Plug & Navigate Robots for smart factories”, contract cercetare FP7, coordonator local
3. “DRIVE C2X”, contract cercetare FP7, coordonator local
4. “Measurement of road surface using stereo”, contract extern BOSCH, director

## **TAP-N**

### **Contracte internaționale de cercetare științifică – membru în echipa de proiect**

1. *Proiect FP7 TWIST -Trustworthy Wireless Industrial Sensor networks*
2. *Proiect FP7 EUWB -CoExisting Short Range Radio by Advanced Ultra-WideBand Radio Technology Enlarged European Union*
3. *Project in FP7-REGPOT-2010-1 ERRIC Empowering Romanian Research on Intelligent Information Technologies*

### **Contracte naționale de cercetare științifică – responsabil proiect**

1. *CONDEGRID -Contributia nationala la dezvoltarea gridului de calcul LCG pentru fizica particulelor elementare*
2. *HP-See*

### **Contracte naționale de cercetare științifică – membru în echipa de proiect**

1. *Rețea Națională de Formare CONTinuă a CadrelOR Didactice din Învățământul Preuniversitar Profesional și Tehnic – CONCORD”*

2. POSDRU/86/1.2/S/62485 "Sistem de formare și evaluare centrat pe student, online, la discipline fundamentale de licență și masterat din învățământul superior tehnic"
3. POSDRU 89/1.5/S/62557 Excelența în cercetare prin programe postdoctorale în domenii prioritare ale societății bazate pe cunoaștere (EXCEL)
4. Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă (INSEED) - ID 57748

#### **Echipa de cercetare în cadrul proiectelor internaționale și naționale:**

*Nicolae Țăpuș, Valentin Cristea, Nicolae Cupcea, Emil Slusanschi, Alexandru Herisanu, Mugurel Andreica, Razvan Deaconescu, Dan Tudose, Razvan Tataroiu, Florin Pop, Ciprian Dobre, George Milescu, Andrei Voinescu, Alexandru Olteanu, Mihai Bucicoiu, Dan Dragomir,*

#### **VIN-L**

**VINTAN L. (membru în echipa cercetare, director: Prof. dr. Koen de Boschere, Ghent University, Belgium),** FP7 European Network of Excellence on High Performance and Embedded Architecture and Compilation (HiPEAC3), 2012-2016, budget 3.800.000 Euros, v. - <http://www.hipeac.net/>; <http://www.hipeac.net/dmemberslist>

## **4. Sesiuni științifice (inter)naționale organizate prin implicarea secțiilor**

#### **ALE-N**

ECAI'2011 Pitești - membru în Technical Program Committee (TPC) și recenzent  
 ISEEE 2013, Galați - membru în Technical Program Committee (TPC) și recenzent  
 ISSCS 2013, Iași, România - recenzent

#### **BOR-E**

### 1. Membru in comitetele stiintifice ale conferintelor internationale

CTRQ 2013, ICWMC 2013, NETWARE 2013, ICNS 2013, AICT 2013, ICCGI 2013, INTERNET 2013

([www.iaria.org](http://www.iaria.org))

### 2. "Session chair" la o parte dintre acestea.

## CRE-V

- Participarea la organizarea Conferintei Internationale **SACI 2012** 8-th IEEE International Symposium on Applied Computational Intelligence and Informatics, May 23-24, 2013, Timisoara Romania
- Participarea cu o lucrare și în calitate de Session Chair la **ROSE 2012**, IEEE International Symposium on Robotic and Sensors Environment, November, 16-18, Magdeburg, Germany

## CRO-V

1. "POWEL & CIT" Session Chairperson - The 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering - "Politehnica" University of Bucharest, Faculty of Electrical Engineering, ATEE 2013, May 23-25, 2013, Bucharest, Romania.
2. "Communications I" Session Chairperson – The 11-th International Symposium on Signals, Circuits and Systems - organized by The "Gheorghe Asachi" Technical University of Iași - Faculty of Electronics, Telecommunications and Information Technology, IEEE Romania Section CAS Chapter in cooperation with IEEE CAS Society - ISSCS 2013, 11-12 July, 2013, Iași, Romania.
3. Paper Review Board member – ATEE 2013, The 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering - "Politehnica" University of Bucharest, Faculty of Electrical Engineering under the aegis of IEEE Romania Section, 23-25 May, 2013, Bucharest, Romania.

**LET-A**

Member in the Program Committee:

**IEEE/WIC/ACM International Conference on Intelligent Agent Technology,**

22.27 Noiembrie 2013, Atlanta, GA, USA (<http://cs.gsu.edu/wic2013/iat/>)

2013, Mai 14, Rio de Janeiro, Brazilia (<http://wic.litislab.fr/2013/index.html>)

**4th International Symposium on Web Intelligence and Communities,**

2013, Octombrie 23-25, Lancaster, UK

1 (<http://www.eurosis.org/cms/>)

**27th European Simulation and Modelling Conference,**

**NAF-I**

- Includerea in ISI Web of Knowledge a conferintei ISETC 2012, Timisoara, Romania, (sub egida ASTR, NAF-I) in luna **Iunie 2013**
- **Technical Program Committee Member si recenzor: EUSIPCO 2013, 9-13 Sep 2013, Marrakech, Maroc**
- **Technical Program Committee Member: I2MTC 2013 Minneapolis, MN, May 6-9, 2013**
- **Recenzor Bul.Stiintific al UPT, seria electronica si telecomunicatii**

**NED-S**

**Membru in comitetul program al urmatoarelor conferinte:**

1. 19th International Conference on Control Systems and Computer Science (CSCS-19), May 29-31, 2013, Bucharest, Romania
2. IEEE Intelligent Vehicles Symposium 2013 (IV), September, 2013, Gold Cost, Australia
3. 9th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2013), September 5-7, 2013, Cluj-Napoca, Romania

4. IEEE Intelligent Transportation Systems Conference 2013 (ITSC), June, 2013, The Hague, Olanda
5. 17th International Conference on System Theory, Control and Computing, (ICSTCC 2013), October 11-13, Sinaia, Romania

## **SERB-A**

**Co-Chair al Conferinței internaționale COMMUNICATIONS 2014 (inceput din 2013)**

**Membru in Comitetul tehnic al Conferințelor internaționale: ECAI Pitești, 2013**

**Chair al WORKSHOP-ului internațional** cu tema: **“SISTEME si REȚELE de SENZORI”** organizat la Univ. de Sud-Est “Lumina” pe data 20 iunie 2013

## **TAP-N**

**Membru in comitetul de organizare și comitetul de program conferințe naționale și internaționale:**

1. *RoEduNet 2013 The 12-th International RoEduNet Conference , Sinaia, Romania, <http://conference.roedu.net/index.php/roedunet2013/roedunet12>*
2. *7th IEEE International Symposium On Applied Computational Intelligence And Informatics SACI 2012 May 24-26, 2012, Timisoara, Romania*
3. *2013 IEEE ICCP IEEE 9th International Conference on Intelligent Computer Communication and Processing, September 5-7, 2013, Cluj-Napoca, Romania*
4. *CSCS-19 19th International Conference On Control Systems And Computer Science May 29-31, 2013 Bucharest, Romania*
5. *2nd International Conference on Sstem and Computer Science, August 26-27, 2013, Villeneuve d’Ascq , Lille France*
6. *The 13th IEEE International Conference on Computer and Information Technology, Dec. 3-5, 2013, Sydney, Australia.URL: <http://www.swinflow.org/~jchen/>*
7. *The 12th International Symposium on Parallel and Distributed Computing - ISPDC 2013, Bucharest, Romania.*

## **VIN-L**

1. [ARCS-2013](#) – Prague, Czech Republic, February 19-22 2013

2. 19-th International Conference on Control Systems and Computer Science (CSCS-19), Bucharest, Romania, May 29 to May 31, 2013 - <http://cscs19.acs.pub.ro/committee.html>
3. 17-th International Conference on System Theory, Control and Computing – ICSTCC 2013, Sinaia Palace Hotel, ROMANIA, October 11 to October 13, 2013 - <http://ace.ucv.ro/icstcc2013/committees.php>
4. 6-th International Conference on Security for Information Technology and Communication, 25-26 June 2013, Bucharest, Romania - <http://www.secitc.eu/>
5. The 2013 International Conference on High Performance Computing & Simulation, HPCS 2013 - <http://hpcs2013.cisedu.info/> Helsinki, Finland, July 01-05 2013
6. New York City, July 15-17 2013 - IEEE/ACM International Symposium on Nanoscale Architectures – v. <http://www.nanoarch.org/13/index.html>
7. “Hypergrid” Session Chair, 10<sup>th</sup> International Conference on Intelligent Computer Communication and Processing (ICCP 2013), Cluj-Napoca, September 5 - 7, 2013, v. <http://www.iccp.ro/iccp2013/index.php/technical-program.html>

## 5. Intâlniri cu mediul de afaceri

### VIN-L

**Lucian VINTAN**, *Automatic Multi-Objective Optimization of Mono-Core and Multi-Core Architectures using Domain-Knowledge* (61 PPT slides), Invited Scientific Presentation, CONTINENTAL R&D Sibiu Branch, March 4<sup>th</sup> 2013 – disponibilă la adresa <http://webpace.ulbsibiu.ro/lucian.vintan/html/Conti.pdf>

### NED-S

**S. Nedevschi**, “Future and Emerging Technologies” la *Cluj IT Innovation Days*, 20-21 March, 2013, Cluj-Napoca

**S. Nedevschi**, “Sensorial Perception for Resilient Robotics and Autonomous Systems”, Networking Session “Resilient Robotics and Autonomous Systems”, *ICT 2013*, 6-8, 11, 2013, Vilnius, Lithuania

## **6. Manifestările științifice sub egida ASTR ;**

### **LET—I**

Sprijinirea organizării conferinței cu participarea internațională desfășurate sub egida ASTR

**IEEE 9<sup>th</sup> International Conference of the Intelligent Communication and Processing, ICCP2013, 30 August – 1 septembrie 2013, Cluj-Napoca, Romania, program chair LET-I**

<http://www.iccp.ro/iccp2013/>

### **NED-S**

IEEE 9<sup>th</sup> International Conference of the Intelligent Communication and Processing, ICCP2013, September 5-7, 2013, Cluj-Napoca, Romania, conference chair

### **VIN-L**

Organizator **HiPEAC Workshop Sibiu 1-3 aprilie 2013** cu participare internațională (*Prof. Koen de Bosschere - Ghent Univ., Prof. Rainer Leupers – Aachen Univ., Prof. Kostas Magoutis - FORTH Greece*) și națională - *Nicolae Țăpuș (UP București), Sergiu Nedevschi (UT Cluj-Napoca), Lucian Vințan (ULB Sibiu), Alexandru Amaricai și Marius Marcu (UP Timișoara)* - [http://csac.ulbsibiu.ro/stiri.php?obj\\_id=58](http://csac.ulbsibiu.ro/stiri.php?obj_id=58)

## **7.Cărți/reviste publicate sub egida ASTR ;**

## **8. Activitatea de pregătire prin doctorate (recenzent, teze susținute, profesor invitat)**

## ALE-N

### Membru în comisia de doctorat

Iuliana Patentariu (Chiuchișan), „Contribuții privind procesarea numerică a semnalelor folosind limbaje de descriere hardware”, Universitatea „Ștefan cel Mare”, Suceava, 2013

Ștefan Sfichi, „Contribuții privind îmbunătățirea sistemelor wireless în case inteligente”, Universitatea „Ștefan cel Mare”, Suceava, 2013

Daniel Simion „Contribuții privind optimizarea transmisiei de date în rețelele de comunicații”, Universitatea „Ștefan cel Mare”, Suceava, 2013

Mihai Florentin Ursuleanu „Contribuții la dezvoltarea Cyberinfrastructurii pentru vizualizarea și controlul de la distanță a echipamentelor de cercetare și educație”, Universitatea „Ștefan cel Mare”, Suceava, 2013

Eugen Dodi „Planificator de timp real implementat hardware pentru sisteme embedded bazate pe FPGA”, Suceava, 2013

## BOR-E

### Teze finalizate și susținute

1. R.Miruta, “Content based processing networks”, Ph.D. Thesis, Bucharest, UPB, March 2013.
- 2- R.Iorga, “Hybrid Multicast Trees in Multimedia Environments”, Ph.D. Thesis, Bucharest, UPB, March 2013

## CRI-D

7 doctoranzi în ppregătire

## CRE-V

Număr de doctoranzi în prezent : 10

Membru în comisii de doctorat (nominalizare): 6 comisii: 3 Cluj, 2 Timisoara, 1

Oradea

**NED-S****Teze sustinute:**

Dan Pojar, “Simultaneous Localization and Mapping Based on Visual Sensing”,  
Decembrie 2013, Cluj-Napoca, conducator stiintific NED-S

**Membru din Comisiile de analiza si sustinere** a 6 teze de doctorat din care una la  
University of Technology at Belfort and Montbeliard, Franta

**STA-D**

## Teze finalizate și susținute

<b>1</b>	<b>Tudor Culda</b>	<b>Explorarea câmpului sonor în spații închise în vederea amprentării acustice și a ameliorării performanțelor acustice ale încăperii</b>	<b>București 2013</b>
<b>2</b>	<b>Ilie Mihai</b>	<b>Cercetări privind metode de animație facială 3D</b>	<b>București 2013</b>

**SER-A**

În anul 2013 a facut parte din Comisiile de amnaliză și susținere a 12 teze de doctorat din  
Romania și din juriul a două teze din Franța :

- J. A. Pardinias-Mir ”*Contribution à l'étude de la détection des signaux UWB. Etude et implémentation d'un récepteur ad hoc multicapteurs. Applications indoor de localisation*”, these soutenue le 11 janvier 2013 pour obtenir le grade de docteur de TELECOM SUDPARIS – France
- **President du jury de soutenance du diplôme d’habilitation a diriger des recherches de Monsieur Cornel IOANA a INP Grenoble- France.**

## TAP-N

### Profesor Invitat la Universitatea Maryland USA pentru cursurile:

CMIS 310 Computer Systems and Architecture

CMIS 141 Introductory Programming

CMIS 102 Introduction to Problem Solving Algorithm Design

<http://www.umuc.edu>

### Membru in comisia de doctorat

- *Universitatea Tehnica din Delft, Olanda, Universitatea Politehnica Bucuresti, Universitatea Lucian Blaga Sibiu, Academia Tehnica Militara, Universitatea Tehnica Cluj-Napoca, Universitatea Politehnica din Timisoara, Universitatea din Brasov, Universitatea Stefan Cel Mare din Suceava.*

### Școala de vară si Cursuri de instruire

- *Grid Initiative 2013 (<http://gridinitiative.ncit.pub.ro/>)*

### Concursuri studentesti:

- *The SouthEastern European Regional Contest of the ACM International Collegiate Programming Contest (<http://www.acm.ro>) 14-18 octombrie 2013*
- *The 3rd Instructor Competition in CEEE (<http://www.icompetition.net/>)*

## Partea II

### Programe organizatorice

#### Structura secției 20 membri: 10 titulari, 10 corespondenți

Nicolae ALEXANDRU	membru corespondent
Ion BĂNICĂ	membru titular
Eugen BORCOCI	membru corespondent
Silviu CIOCHINA	membru corespondent
Vladimir CREȚU	membru titular
Dan CRISTEA	corespondent
Valentin CRISTEA	membru corespondent
Victor CROITORU	membru titular
Ioan JURCĂ	membru corespondent
Ion LEȚIA	membru corespondent
Ioan NAFORNIȚĂ	membru titular
Sergiu NEDEVSCI	membru corespondent
Adrian PETRESCU	membru titular
Mircea PETRESCU	membru titular

Ion STĂNCIULESCU	membru titular
Dumitru STANOMIR	membru titular
Alexandru ȘERBĂNESCU	membru corespondent
Nicolae ȚĂPUȘ	membru titular
Gavril TODEREAN	membru corespondent
Lucian VINȚAN	membru titular

#### **STA-I**

**1. Participarea la elaborarea documentelor pentru ședința Secției din data de 31 mai 2013, precum și elaborarea documentelor rezultate în urma lucrărilor, inclusiv în ceea ce privește alegerea Biroului Secției.**

#### **STA-D**

- 1. Participarea la elaborarea documentelor pentru ședința Secției din data de 31 mai 2013, precum și elaborarea documentelor rezultate în urma lucrărilor, inclusiv în ceea ce privește alegerea Biroului Secției.**

Constuirea evidenței secției pentru Agenda ASTR 2013

**Sprrijinirea de către membrii ASTR a publicațiilor științifice de specialitate din București, Timișoara, Cluj, Iași (membrii în comitetul de redacție, recenzenți, etc.**

## din țară sau din străinătate

### ALE-N

Membru în International Scientific Board și recenzent la revista “Advances in Electrical and Computer Engineering” – indexată ISI

Membru în Technical Program Committee (TPC) și recenzent la ECAI'2011 Pitești

Membru în Technical Program Committee (TPC) și recenzent la ISEEE 2013, Galați

Recenzent la ISSCS 2011, Iași, România

Recenzent la IEEE Communication Letters

### BAN-I

Membru în Comitetul de Redacție al Revistei Revue Roumaine des Sciences

Techniques Academie Roumaine

### CRE-V

Realizări de activități pentru Filiala la care a fost nominalizat

- Membru Comisia de redactie si completare pagina WEB
- Mentenanță site, actualizare, completare informatii, aducerea la zi a revistelor ASTR TM

Activitatea tehnico-științifică la care și filiala ASTR a fost nominalizată:

- Organizarea conferinței internaționale **SACI 2013 8-th International Symposium on Applied Computational Intelligence and Informatics, May 2013, Timisoara Romania**, sub egida IEEE și ASTR
- Organizarea festivității înmânării Premiului și Diplomei „**Student eminent**” respectiv „**Cercetator eminent**” de către Asociația „Orizonturi Universitare”, Academia Română Filiala Timisoara, ASTR Filiala Timișoara și Primăria Municipiului Timișoara, Timisoara decembrie 2012

Participare Comitete de conferinta, Comitete de organizare, Recenzor

**I2MTC 2013** 2013 IEEE International Instrumentation and Measurement Technology Conference, "*Instrumentation and Measurement for Life*", May 6-9, 2013, Minneapolis, MN, SUA, member of the Technical Program Committee

**CSCS19** 19-th International Conference on Control System and Computer Science, Bucuresti, Romania, 29-31 May, 2013, member of the International Program Committee, <http://cscs19.acs.pub.ro/>

**IDAIR 2013** 1st IEEE Workshop on Intelligent Data Analysis with Applications in Information Retrieval and Machine Learning, Sesimbra , Portugal 26 - 28 June 2013, organized in conjunction with The 6th International Conference on Intelligent Interactive Multimedia Systems and Services - KES IIMSS 2013, member of the Technical Program Committee (TPC)

**ICNGCC'2013** International Conference on Networking and Grid Cloud Computing organized a conference at the WCCIT'13, World Congress on Computer and Information Technologies, Sousse, Tunisia, 22-24 June, 2013, member of the Technical Program Committee (TPC)

**ICMMP'13** International Conference on Multi Media Processing, Sousse, Tunisia, 22-24 June, 2013, reviewer

**CASE 2013** 9-th IEEE International Conference on Automation Science and Engineering, Madison, Wisconsin, USA, August 17-21, 2013, reviewer

**MMAP 2013** The 6th International Symposium on Multimedia Applications and Processing, September 8-11, 2013, Crakow, Poland, member of the Program Committee (PC)

**ROSE 2013** 2013 IEEE International Symposium on Robotic and Sensors Environments, October 21-23, Washington, DC, USA, member of the Technical Program Committee (TPC)

## CRI-D

CRI-D a fost membru în următoarele Comitete Program pe parcursul anului 2013:

1. Membru în Comitetul Program la *ACL-2013 (The 51st Annual Meeting of the Association for Computational Linguistics)*, Sofia, Bulgaria, 4-9 August 2013, <http://www.acl2013.org/>.
2. Membru în Comitetul Program la *CICLing-2013*, March 24–30, 2013. University of the Aegean, Samos, Greece, <http://www.cicling.org/2013/>.
3. Membru în Comitetul Program la ediția a 9-a a *ConsILR, Conferința Resurse lingvistice și instrumente pentru prelucrarea limbii române*, Miclăușeni, 16-17 mai 2013, <http://consilr.info.uaic.ro/2013/>.
4. Membru în Comitetul Program la *KEPT-2013, Knowledge Engineering: Principles and Techniques Conference*, Babes-Bolyai University, 5-7 July, 2013, <http://www.cs.ubbcluj.ro/kept2013/>.
5. Membru în Comitetul Program la *IJCNLP, the 6th International Joint Conference on Natural Language Processing*, 14-18 October 2013, Nagoya, Japan, <http://lang.cs.tut.ac.jp/ijcnlp2013/>.
6. Membru în Comitetul Program la *NLPCS 2013, 10th International Workshop on Natural Language Processing and Cognitive Science*, Marseille, 15-16 October 2013, <https://sites.google.com/site/nlpcs2013/>.
7. Membru în Comitetul Program la *RANLP-2013, Recent Advances in Natural Language Processing*, 7-13 September, 2013, Hissar, Bulgaria, <http://lml.bas.bg/ranlp2013/>.
8. Membru în Comitetul Program la *JSSP-2013, Joint Symposium on Semantic Processing. Textual Inference and Structures in Corpora*, 20-22 November, Trento, Italy, <http://jssp2013.fbk.eu/>.
9. Membru în Comitetul Program la *Journal of Control Engineering and Applied Informatics*, <http://www.ceai.srait.ro/index.php/ceai>
10. Recenzor pentru *Language Resources and Evaluation Journal* <http://www.springer.com/education+%26+language/linguistics/journal/10579>

## CRI-V

### Articole de jurnal recenzate

Applied Mathematics and Computation, Elsevier

Title: Modeling the Problem of DAG Scheduling As a Genetic Algorithm Problem

CEAI - Control Engineering and Applied Informatics Journal (ISSN 1454-8658)

Title: Transparent Real Time Monitoring for Multi-tenant J2EE Applications

Cluster Computing Journal (ISSN: 1386-7857), Springer

Title: Mobile Agent based Multi-Layer Security Framework for Cloud Data Centers

Journal of Supercomputing (ISSN: 0920-8542), Springer

Title: QoS based Resource Provisioning and Scheduling in Grids

### **Conferinte recenzate (membru in Comitetul de program)**

CCGrid2013, the 13<sup>th</sup> IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, May 13-16 2013 Delft, the Netherlands

CIT2013, the 13th IEEE International Conference on Computer and Information Technology, December 3-5, 2013 Sydney, Australia

CSCS19, The 19th International Conference on Control Systems and Computer Science, 29-31 May 2013

ICCP 2013, 9<sup>th</sup> International Conference on Intelligent Computer Communication and Procesising, September 5 - 7, 2013 in Cluj-Napoca, Romania

ICSTTC 2013, the 17th International Conference on System Theory, Control and Computing, 11 - 13 October 2013, Sinaia, Romania

SYNASC 2012, The 15th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, September 23-26, 2013, Timisoara, Romania

### **Organizare conferinta (Steering Committee member)**

ISPDC 2013, The 12th International Symposium on Parallel and Distributed Computing, Faculty of Automatic Control and Computers, University *Politehnica* of Bucharest, June 27-30, 2013, Bucharest, Romania

### **NAF-I**

**Redactor sef la** Buletinul Stiintific al Universitatii Politehnica din Timisoara - Seria Electronica si Telecomunicatii

■ **Recenzor Bul.Stiintific al UPT, seria electronica si telecomunicatii**

**NED-S****Membru în comitete de redacție:**

- Editor la Automation, Computers and Applied Mathematics (ACAM)
- Editor asociat la IEEE Transactions on Intelligent Transportation Systems
- Editor asociat la Transactions on Automatic Control and Computer Science

**Recenzent la:**

- IEEE Transactions on Intelligent Transportation Systems
- IEEE Transactions on Vehicular Technology
- IEEE Transactions on Image Processing
- Computer Vision and Image Understanding
- CEAI - Control Engineering and Applied Informatics Journal
- Automation, Computers and Applied Mathematics (ACAM)

**SER-A**

Membru în colective /colegii editoriale /de redacție ale unor reviste cunoscute naționale /internaționale

- membru în colectivul de redacție al revistei: „Revue Roumaine des Sciences Techniques, - Serie *Electrotehnique et Energetique*” al Academiei Române;

- membru în colectivul de redacție al:

- „Buletinului științific al Academiei Tehnice Militare din București.
- „Buletinului științific al Universității din Pitești”;
- Revistei „Telecomunicații”, editată de UPB și Autoritatea Națională pt. Comunicații

**Referent științific** /expert național /**internațional** (reviste, congrese, ș.a.):

- Rev. **Annales de Telecommunications, Franța**
- Ed. **Springer** pentru diferite Simpozioane și Conferințe

**STA-D**

Zentralblatt fur Mathematik Rewiewer (currently)

Mathematical Rewievs Rewiewer (currently)

Co-editor at Scientific Bulletin of Polytechnica University of  
Bucharest (Electronics and Computers)

Scientic Member Commitee SISOM 2013, Moderator

**STA-I**

**Redactor Șef al Revistei „Telecomunicații”, cu apariție semestrială și cu distribuție națională și internațională.**

**S-a asigurat tipărirea și distribuirea celor două numere ale revistei, aferente anului 2012 și au fost editate și sunt în curs de tipărire numerele aferente anului 2013.**

**Membru în Colegiul Științific al Editurii AGIR.**

**TAP-N**

**Membru în colectivul de redacție al unor reviste recunoscute CNCSIS**

*Tranzactions on Automatic Control and Computer Science, ISSN 1224-600X,*  
<http://www.ac.upt.ro/journal/>

*JAQM - Journal of Applied Quantitative Methods, ISSN 1842-4562*  
<http://jaqm.ro/index.php>

*Revista Romana de Informatica si Automatica*  
<http://www.ici.ro/rria.html>

*Automation, Computers and Applied Mathematics (ACAM) Cluj Napoca*

*Buletinul Stiintific UPB - Inginerie Electrica si Stiinta Calculatoarelor*  
[http://www.pub.ro/romana/Buletin\\_stiintific/index.html](http://www.pub.ro/romana/Buletin_stiintific/index.html)

### **Referent științific la reviste recunoscute CNCSIS**

*Buletinul Stiintific UPB - Inginerie Electrica si Stiinta Calculatoarelor*  
[http://www.pub.ro/romana/Buletin\\_stiintific/index.html](http://www.pub.ro/romana/Buletin_stiintific/index.html)

*Romanian Journal of Information Science and Technology - Academia Romana ISSN: 1453-8245*

<http://www.ear.ro/3brevist/rv82/rv82.htm>

<http://www.imt.ro/romjist/>

*Proceedings of the Romanian Academy*  
[http://www.acad.ro/sectii2002/proceedings/proc\\_paq\\_eb.htm](http://www.acad.ro/sectii2002/proceedings/proc_paq_eb.htm)

*JAQM - Journal of Applied Quantitative Methods*  
<http://jaqm.ro/index.php>

### **TOD-G**

Participarea la organizarea conferintei Sped (Speech Technology) 2013 , coferinta organizata de Academia Romina, Universitatea Politehnica Bucuresti si Universitatea Tehnica din Cluj Napoca.in perioada 16-17 Octombrie la Cluj-Napoca

Chair la sectia: Text -to -Speech Synthesis ,Speaker Recognition,Assistive Technologies din cadrul conferintei Sped 2013,16-17 Oct.,Cluj-Napoca.

## **Partea III**

## Lista lucrărilor publicate de membrii secției în 2013

### Articole (comunicări tipărite, tutoriale, etc)

#### ALE-N

##### Articole

##### Reviste indexate ISI

N.D. Alexandru, and A. L. Bălan, „Investigation of the Mechanism of Improvement in Improved Nyquist Filters”, IET Signal Processing, 2013, online E-first.

<http://digital-library.theiet.org/content/journals/10.1049/iet-spr.2013.0050>

Alexandra Ligia Balan, and N.D. Alexandru, „Construction of New ISI-Free Pulses Using a Linear Combination of Two Polynomial Pulses”, accepted for Telecommunication Systems, 2013

##### Conferințe internaționale

Nicolae Dumitru Alexandru, Alexandra Ligia Balan, Felix Diaconu and Mihai Dimian, “Development of Improved Nyquist Filters with Piecewise Linear Frequency Characteristics”, 36th Internat. Conference on Telecommunications and Signal Processing - TSP, Rome, Italy, 2013

Nicolae Dumitru Alexandru, Alexandra Ligia Balan, Felix Diaconu, “Square-Root Improved Nyquist Filter with a Piece-wise Rectangular Frequency Characteristic”, Proc. ISSCS 2013, Iași, on CD.

Nicolae Dumitru Alexandru, Nicolae Cleju, “Implementation Considerations of Improved Nyquist Filters”, Proc. ECAI, Pitești, Vol.3, /2013, pp.13-16, ISSN-1843-2115, indexat IEEEExplore DOI: [10.1109/ECAI.2013.6636187](https://doi.org/10.1109/ECAI.2013.6636187)

Nicolae Dumitru Alexandru, Alexandra Ligia Balan, “Optimization of a Square-Root Nyquist Filter with Staircase Frequency Characteristic”, ISEEE Galați, 2013, , indexat in IEEEExplore DOI: [10.1109/ISEEE.2013.6674319](https://doi.org/10.1109/ISEEE.2013.6674319).

Nicolae Dumitru Alexandru, „State of the Art in Improved Nyquist Filters”, ECAI, Pitești, 2013, invited paper

Nicolae Dumitru Alexandru, “Optimization of an Improved Nyquist Filter with Piece-Wise Polynomial Frequency Characteristic”, ASTR Conference „Zilele Academiei de Științe Tehnice din România”, ediția a 8-a Brașov, 4-5 octombrie 2013, lucrare comunicată

#### BAN-I

O. Iosif, I. Bănică, “*Performance Analysis of Downlink LTE Using System Level Simulator*”, UPB Sci. Bull, Series C, Vol. 75, Iss. 1, 2013, pp. 111-122.

*Participarea in doua comisii de sustinere a tezelor de doctorat:*

***Hybrid Multicast Trees in Multimedia Environments, autor Radu Iorga, conducator Eugen Borcoci si Rețele cu procesare bazată pe conținut***,

elaborată de domnul inginer **Miruță Radu-Dinel, conducator Eugen Borcoci.**

## BOR-E

### A. *Jurnale*

1. R.Iorga,(UPB) António Pinto,(INESC) E.Borcoci,(UPB) G. Carneiro,(INESC) R.Miruta,(UPB) T.Calcada,(INESC) “Multicast Services and Resources Management in Virtual Content Aware Networks”, IEEE Comm.Magazine, acceptat in 2013.

### B. *Conferinte*

1. R.Iorga, E.Borcoci, R.Miruta, (UPB), “Management Driven Multicast Protocol With End-to-End QoS” –CTRQ 2013, The Sixth International Conference on Communication Theory, Reliability, and Quality of Service, CTRQ 2013, April 21 - 26, 2013 - Venice, Italy, ThinkMind // CTRQ 2013, The Sixth International Conference on Communication Theory, Reliability, and Quality of Service // View article ctrq\_2013\_1\_20\_10045
2. R. Miruta, E.Borcoci, (UPB) „Optimization of Overlay QoS Constrained Routing and Mapping Algorithm for Virtual Content Aware networks”, The Ninth International Conference on Networking and Services ICNS 2013, March 24 - 29, 2013 - Lisbon, Portugal, [http://www.thinkmind.org/index.php?view=article&articleid=icns\\_2013\\_4\\_30\\_10174](http://www.thinkmind.org/index.php?view=article&articleid=icns_2013_4_30_10174)
3. Serban Georgica Obreja, Alexey Baraev, Irinel Olariu, Eugen Borcoci “A Wireless Mesh Network Solution Based on WiMAX Technology with Smart Antennas Support”, AICT 2013, The Ninth Advanced International Conference on Telecommunications, June 2103, Rome, Italy
4. Cristian Cernat, Eugen Borcoci, Vlad Poenaru , “SLA Framework Development for Content Aware Networks Resource Provisioning”, AICT 2013, The Ninth Advanced International Conference on Telecommunications, June 2103, Rome, Italy [http://www.thinkmind.org/index.php?view=article&articleid=aict\\_2013\\_8\\_30\\_10084](http://www.thinkmind.org/index.php?view=article&articleid=aict_2013_8_30_10084)
1. R.Iorga, E. Borcoci “A Signaling Framework for Hybrid Multicast Trees” – Buletin stiintific UPB, 2013

5. V.Poenaru, E.Borcoci, M.Zotea, "Topology and Network Resources Discovery Protocol for Content-Aware Networks" INNOV 2013, The Second International Conference on Communications, Computation, Networks and Technologies, November 17 - 22, 2013 - Lisbon, Portugal – acceptat.

### C. Tutoriale

1. E.Borcoci, (UPB) Tutorial ( 2h) "New Networking Technologies Support for Media-oriented Applications", InfoSys 2013, March 24 - 29, 2013 - Lisbon, Portugal,  
<http://www.aria.org/conferences2013/TutorialsICNS13.html>  
<http://www.aria.org/conferences2013/filesICNS13/InfoSys%202013-New-Net-Tech-%20Media%20Oriented%20v2.1.pdf>
2. E.Borcoci, „Software Defined Networking and Architectures" AFIN 2013, The Fifth International Conference on Advances in Future Internet, August 25 - 31, 2013 - Barcelona, Spain  
<http://www.aria.org/conferences2013/TutorialsAFIN13.html>

## Rapoarte de cercetare la proiecte internationale:

### 1.Proiectul FP7 ALICANTE

E.Borcoci + echipa UPB - coautori

D6.6 The ALICANTE CAN Layer and Network Environment– Final – E.Borcoci- editor

D8.1 Use Cases and Validation Methodology

D8.2 Pilot Integration

D8.3 Trials and Validation

D9.2 Report on Ongoing Standardisation Dissemination, Exploitation and training Activities r2

<http://www.ict-alicante.eu/public/>

### Keynote Speaker

E.Borcoci, Transport and Networking: Future Internet Trends  
[InfoSys 2013](http://www.aria.org/conferences2013/InfoSys2013), March 24 - 29, 2013 - Lisbon, Portugal

**CRE-V****2013**

Elisa Valentina Moisi, *Vladimir Ioan Cretu*, Benedek Nagy, „*Reconstruction of Binary Images Represented on Equilateral Triangular Grid Using Evolutionary Algorithms*”, “Soft Computing Applications”, Proceedings of the 5th International Workshop Soft Computing Applications (SOFA 2012), Advances in Intelligent Systems and Computing series ASIC 195, (Editors-in-Chief: Janusz Kacprzyk), Springer Heidelberg New York. Dordrecht London 2013, (pp.561-572), ISSN 2194-5357, ISBN 978-3-642-33940-0, e-ISSN 2194-5365, e-ISBN 978-3-642-33941-7, DOI 10.1007/978-3-642-33941-7 ([www.springer.com](http://www.springer.com))

Elisa Valentina Moisi, *Vladimir Ioan Cretu*, Benedek Nagy, “*Maximum Flow Minimum Cost Algorithm for Reconstruction of Images Represented on the Triangular Grid*”, Proceedings of the 8-th [IEEE International Symposium on Applied Computational Intelligence and Informatics](#), SACI 2013, Editor(s): Fodor, Janos; Ciocarlie, Horia, IEEE, Timisoara, Romania, 23-25 May. 2013, pp. 35-40, CD-ROM support, ISBN 978-1-4673-6397-6, ([IEEE Xplore](#), IEEE)

Stangaciu, Cristina S.; Micea, Mihai Victor; *Cretu, Vladimir Ioan*, “*Energy Efficiency in Real-Time Systems: A Brief Overview*”, Proceedings of the 8-th [IEEE International Symposium on Applied Computational Intelligence and Informatics](#), SACI 2013, Editor(s): Fodor, Janos; Ciocarlie, Horia, IEEE, Timisoara, Romania, 23-25 May. 2013, pp. 275 - 280, CD-ROM support, ISBN 978-1-4673-6397-6, ([IEEE Xplore](#), IEEE)

Marius Marcu, Nadia Ghiata, *Vladimir Cretu*, “*Extracting High-Level User Context from Low-Level Mobile Sensors Data*”, Proceedings of the 8-th [IEEE International Symposium on Applied Computational Intelligence and Informatics](#), SACI 2013, Editor(s): Fodor, Janos; Ciocarlie, Horia, IEEE, Timisoara, Romania, 23-25 May. 2013, pp. 449-454, CD-ROM support, ISBN 978-1-4673-6397-6, ([IEEE Xplore](#), IEEE)

Stancovici, Andrei; Indreica, Sinziana; Micea, Mihai Victor; *Cretu, Vladimir Ioan*; Groza, Voicu, Proceedings of the 30-th [IEEE Instrumentation and Measurement Technology Conference](#), I2MTC 2013, Editor(s): Cortner, Max; Zoughi, Reza, IEEE Minneapolis, USA, 06-09 May, 2013, pp. 1730 - 1733, CD-ROM support, ISBN 978-1-4673-4621-4, ISSN 1091-5281, DOI: 10.1109/I2MTC.2013.6555711 ([IEEE Xplore](#), IEEE)

Carmen Holotescu, *Vladimir Cretu*, Gabriela Grosseck, “*Microblogging architecture and scenarios for learning in mobile groups*”, 5th World Conference on Educational Sciences - WCES 2013, Rome, 6-8 February 2013 (**ISI Proc**)

Carmen Holotescu, Gabriela Grosseck, *Vladimir Cretu*, “*MOOC's Anatomy. Microblogging as the MOOC's Control Center*”, The 9th eLearning and Software for Education Conference - eLSE 2013, April 24-25, 2013; <http://elseconference.eu>, <http://elseconference.eu>,

<http://proceedings.elseconference.eu/index.php?site/index&year=2013&index=papers&vol=4&paper=26b04bb635bafcf6ec0fe9dfc83044fa> (**ISI Proc**)

## CRI-V

### Articole Journale si Proceedings

Radu-Ioan Ciobanu, Ciprian Dobre, Valentin Cristea, Florin Pop, Fatos Xhafa  
SPRINT-SELF: Social-Based Routing and Selfish Node Detection in Opportunistic Networks

in *Mobile Information Systems (MIS)* (ISSN: 1574-017X), Accepted for publication 2013.

Catalin Fratila, Ciprian Dobre, Florin Pop, Valentin Cristea  
A Transportation Control System for Urban Environments

in *Journal of Internet Technology (JIT)* (ISSN: 1607-9264), vol. 14, no. 3, pp. 425-442, 2013. (ISI)

Ciprian Dobre, Florin Pop, Valentin Cristea  
The EU-Services Directive: An eFramework to Optimize Public Administration

in *International Journal of Distributed Systems and Technologies (IJDST)*, (ISSN: 1947-3532), Vol. 4, No. 3, pp. 1-16, July-Sept. 2013.

Catalin Negru, Florin Pop, Ciprian Dobre, Valentin Cristea  
Performance analysis of Lustre file systems based on benchmarking for a cluster system

in *U.P.B. Sci. Bull.*, ROMANIA ISSN: 1454-234x), Series C, Vol. 75, Iss. 1, pp. 27-36, 2013.

Nik Bessis, Stelios Sotiriadis, Florin Pop, Valentin Cristea. *Using a novel message-exchanging optimization (MEO) model to reduce energy consumption in distributed systems*, Simulation Modelling Practice and Theory, Available online 14 March 2013, ISSN 1569-190X, <http://dx.doi.org/10.1016/j.simpat.2013.02.003> (ISI, IF = 1.159).

Catalin Negru, Florin Pop, Ciprian Dobre, Valentin Cristea. Performance analysis of Lustre file systems based on benchmarking for a cluster system, in *U.P.B. Sci. Bull.*, ROMANIA ISSN: 1454-234x), Series C, Vol. 75, Iss. 1, pp. 27-36, 2013.

Stelios Sotiriadis, Eleana Asimakopoulou, Nik Bessis, Florin Pop, Valentin Cristea. Performance Evaluation of Interoperable Micro-clouds, *Procedia Computer Science*, Volume 21, 2013, Pages 99-106, ISSN 1877-0509, <http://dx.doi.org/10.1016/j.procs.2013.09.015>

Catalin Leordeanu, Dragos Ciocan, Valentin Cristea, ``Maintaining the confidentiality of archived data'',

Proceedings of the Romanian Academy, Series A, Special issue: Cryptology Science, 2013, ISSN 1454-9069

Catalin Negru, Valentin Cristea: Cost models - pillars for efficient cloud computing: position paper.

Conference proceedings /ACM / IEEE Xplore, Springer, Elsevier

Radu Ioan Ciobanu, Ciprian Dobre, Valentin Cristea  
SPRINT: Social Prediction-Based Opportunistic Routing

in Proc. of *7th IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications* (IEEE AOC 2013), IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2013), Madrid, Spain, pp. 1161-1166, May 2013.

Radu-Ioan Ciobanu, Ciprian Dobre, Mihai Dascalu, Stefan Trausan-Matu, Valentin Cristea  
Collaborative Selfish Node Detection with an Incentive Mechanism for Opportunistic Networks

in Proc. of *5th IFIP/IEEE International Workshop on Management of the Future Internet* (IFIP/IEEE ManFI 2013), IFIP/IEEE International Symposium on Integrated Network Management (IM 2013), Ghent, Belgium, pp. 1161-1166, May 2013.

Elena Burceanu, Ciprian Dobre, Valentin Cristea, Alexandru Costan, Gabriel Antoniu  
Distributed Data Storage in Support for Context-Aware Applications

in Proc. of *12th International Symposium on Parallel and Distributed Computing* (ISPDC 2013), Bucharest, Romania, pp. 93-100, June 2013.

Radu Ioan Ciobanu, Ciprian Dobre, Valentin Cristea  
Reducing Congestion for Routing Algorithms in Opportunistic Networks with Socially-Aware Node Behavior Prediction

in Proc. of *2013 IEEE 27th International Conference on Advanced Information Networking and Applications* (AINA'13), Barcelona, Spain, pp. 554-561, 2013.

Florin Pop, Ciprian Dobre, Valentin Cristea, Nik Bessis  
Scheduling of Sporadic Tasks with Deadline Constrains in Cloud Environments

in Proc. of *2013 IEEE 27th International Conference on Advanced Information Networking and Applications*(AINA'13), Barcelona, Spain, pp. 764-771, 2013.

Cristina Dutu, Elena Simona Apostol, Catalin Leordeanu, Valentin Cristea, "Efficient Service Management for Multimedia Sessions in Hybrid Clouds", The Fourth International Workshop on Cloud Computing,

Services and Interoperability (CCSI 2013), in conjunction with the AINA-2013 conference, pp 632-637

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## CRO-V

1. Tihon, I., Biştea, V., **Croitoru, V.** - Telesurveillance Primary Data Acquisition Module – ATEE 2013 (The 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering), Proceedings, May 23-25, 2013, pp. 132-135 , Bucharest, România, 2013, IEEE Catalog Number: CFP1314P-CDR, ISBN 978-1-4673-5978-8.

2. Marian, C.V., **Croitoru, V.**, Oprea, D. - Packet Routing and Information Distribution in Multiprotocol Label Switching – ATEE 2013 (The 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering), Proceedings, May 23-25, 2013, pp. 224-227 , Bucharest, România, 2013, IEEE Catalog Number: CFP1314P-CDR, ISBN 978-1-4673-5978-8.

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## LET-I

1. **I A Letia**, A Groza – Compliance Checking of Integrated Business Processes, Data and Knowledge Engineering, September 2013, vol 87, pages 1-18

2. **I A Letia**, O Pop – Towards Normative Adaptive Systems in Communities of Agents, Web Intelligence and Agent Systems, vol 11, number 4, pages 339-350, 2013

R Dudila, **I A Letia** – Towards Combining Functional Requirements Tests and Unit Tests as a Preventive Practice Against Software Defects, [8th IEEE International Conference on Intelligent Computer Communication and Processing](#), pages 279-282, Cluj-Napoca, Romania,

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1. **S. Nedevschi**, V. Popescu, R. Danescu, T. Marita, F. Oniga, “Accurate Ego-Vehicle Global Localization at Intersections Through Alignment of Visual Data With Digital Map”, *IEEE Transactions on Intelligent Transportation Systems*, Volume: 14 , Issue: 2, 2013 , pp. 673–687.

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7. R. Brehar, **S. Nedevschi**, “Pedestrian detection in traffic scenes using multi-attitude classifiers”, *16th International IEEE Annual Conference on Intelligent Transportation Systems (ITSC 2013)*, 2013, pp. 1077-1082.

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9. R. Danescu, **S. Nedevschi**, “A Flexible Solution for Modeling and Tracking Generic Dynamic 3D Environments”, *16th International IEEE Annual Conference on Intelligent Transportation Systems (ITSC 2013)*, 2013, pp. 1686-1692.

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13. B. Belean, **S. Nedevschi**, M. Borda, “Application specific hardware architecture for high-throughput short-length LDPC decoders”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, pp. 307 – 310.
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15. A. Trif, F. Oniga, **S. Nedevschi**, “Stereovision on mobile devices for obstacle detection in low speed traffic scenarios”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, pp. 169 – 174.
16. A. E. Nagy, I. Szakats, T. Marita, **S. Nedevschi**, “Development of an omnidirectional stereo vision system”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, pp. 235 – 242.
17. C. Cosma, R. Brehar, **S. Nedevschi**, “Pedestrians detection using a cascade of LBP and HOG classifiers”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, pp. 69 – 75.
18. M. Negru, **S. Nedevschi**, “Image based fog detection and visibility estimation for driving assistance systems”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, Page(s): 163 – 168.
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26. N. Tomasev, D. Pracner, R. Brehar, M. Radovanovic, D. Mladenic, M. Ivanovic, **S. Nedevschi**, “Object recognition in wikimage data based on local invariant image features”, *Intelligent Computer Communication and Processing (ICCP), 2013 IEEE International Conference on*, 2013, pp. 139 – 146.

### **Conferinte invitate (invited talks)**

27. **S. Nedevschi**, “[Stereovision Based Perception for Autonomous Mobile Systems](#)”, *5th International Conference on Computational Collective Intelligence Technologies and Applications*, 11-13 September 2013, Craiova, Romania

**28. S. Nedevschi**, “Computer Engineering Research at Technical University University of Cluj-Napoca”, *HiPEAC Sibiu Workshop*, „Lucian Blaga” University of Sibiu (LBUS), 2-nd April 2013

**29. S. Nedevschi**, “Future and Emerging Technologies” *Cluj IT Innovation Days*, 20-21 March, 2013, Cluj-Napoca

**30. S. Nedevschi**, “Sensorial Perception for Resilient Robotics and Autonomous Systems”, Networking Session “Resilient Robotics and Autonomous Systems”, *ICT 2013*, 6-8, 11, 2013, Vilnius, Lithuania

## **PET-A**

1. Vlad Ciobanu, Norman Hendrich, Adrian Petrescu and Jianwei Zhang, Tactile sensor value preprocessing pipeline, 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, October 2013, Sinaia, Romania
2. Vlad Ciobanu, Martin Noeske, Nirvana Popescu and Adrian Petrescu, Robot telemanipulation system, 17th International Conference on System Theory, Control and Computing Joint Conference SINTES 17, SACCS 13, SIMSIS 17, October 2013, Sinaia, Romania

## **SER-A**

[1] “*Fetal heart rate variability study with recurrence plot analysis*” E-Health

and Bioengineering Conference, EHB 10-11 09 2013

[2] “*Recent advances in non-stationary signal processing based on Recurrence*

*Plot Analysis*,”Cornel Ioana, Angela Digulescu, Alexandru Serbanescu, Ion

Candel and Florin-Marian Birleanu on 5-th International Symposium on

Recurrence Plots Chicago, august 14-16 aug 2013. Lucrare extinsa acceptata

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[3] “*Overview of our recent results in signal analysis using recurrence plots*”,

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Romania

## TAP-N

### Journals

1. Bogdan Ditu, Nicolae Tapus, *Improvements of Instruction Scheduling, Advances in Intelligent Systems and Computing Volume 187, 2013, pp 407-421, Springer*
2. Pantelimon-George Popescu, Florin Pop, Alexandru Herişanu, and Nicolae Țăpuș, *New Inequalities between Information Measures of Network Information Content, Mathematical Problems in Engineering Volume 2013 (2013), Article ID 175769, <http://dx.doi.org/10.1155/2013/175769>*
3. Ionut Andreica, Mugurel; Tapus, Nicolae, *Efficient Online Algorithmic Strategies for Several Two-Player Games with Different or Identical Player Roles, The Smithsonian/NASA Astrophysics Data System, <http://adsabs.harvard.edu/abs/2013arXiv1303.5803I>*
4. Dan Tudose , Laura Gheorghe, Nicolae Țăpuș, *Radio transceiver consumption modeling for multi-hop wireless sensor networks , U.P.B. Sci. Bull., Series C, Vol. 75, Iss. 1, 2013 ISSN 1454-234x*
5. A. C. Olteanu, A. Iosup, N. Țăpuș and F. Kuipers. *A workload evolution model for online social games. Internet Computing. submitted*
6. A. C. Olteanu and N. Țăpuș. *Offloading for mobile devices: A survey. UPB Scientific Bulletin. submitted*

### Conference & Workshop Publications

7. A. Gherghina, A. C. Olteanu, and N. Țăpuș. *A marker-based augmented reality system for mobile devices. In RoEduNet, 2013. Available: <http://bit.ly/XXPLYV>*
8. A. Făsui, A. C. Olteanu, and N. Țăpuș. *Fault tolerant surveillance system based on a network of mobile devices. In RoEduNet, 2013. Available: <http://bit.ly/WCO0K>*
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10. D. O. Rizea, D. Ș. Tudose, A. C. Olteanu, and N. Țăpuș. *Adaptive query algorithm for location oriented applications. In RoEduNet 2013. Available: <http://bit.ly/WGXRbg>*
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15. A. Gherghina, A. C. Olteanu, and N. Țăpuș. *Measuring performance in application offloading for mobile devices*. In *ICSCS*, 2013, Lille France.
16. A. Făsui, A. C. Olteanu, and N. Țăpuș. *A survey regarding grid and distributed computing using mobile devices*. In *ICSCS*, 2013, Lille France.
17. V. Zamfirache, A. Eftenoiu, P. Iosif, A. C. Olteanu, and N. Țăpuș. *Extending the moodle course management system for mobile devices*. In *ICSCS*, 2013, Lille France. In publication.
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22. Vlad Dogaru, Radu Iliescu, Laura Gheorghe, Nicolae Tapus, *Towards Socket-Level Network Header Caching*, 12th RoEduNet Conference: Networking in Education and Research Constanta, Romania, September 26-28 2013,
23. Lucian Ghinea, Mugurel Ionuț Andreica, Vlad Olaru, and Nicolae Țăpuș, *Towards Using SCTP as a Data Transport Protocol for Data-Intensive Batch Jobs*, CSCS-19 19th International Conference On Control Systems And Computer Science May 29-31, 2013 Bucharest, Romania
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25. Radu Velea, Nicolae Țăpuș, and Mircea Bardac, *IARCrypto*, CSCS-19 19th International Conference On Control Systems And Computer Science May 29-31, 2013 Bucharest, Romania
26. Gabriel Avramescu, Mihai Bucicoiu, Daniel Rosner, and Nicolae Țăpuș, *Guidelines for Discovering and Improving Application Security*, CSCS-19 19th International Conference On Control Systems And Computer Science May 29-31, 2013 Bucharest, Romania

27. *Alexandru-Corneliu, Nicolae Tapus and Alexandru Iosup, Extending the Capabilities of Mobile Devices for Online Social Applications through Cloud Offloading, CCGrid2013, the 13th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing, 13 – 16 May 2013, Delft, the Netherlands*
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33. *A. C. Olteanu, A. Iosup, and N. Țăpuș. Towards a workload model for online social applications: Extended report. Tech.Rep. PDS-2013-003, TU Delft, January 2013*
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#### **TOD-G**

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2.I.Brandusoiu, G. Todorean, "Predicting Churn in Mobile Telecommunications Industry," Acta Tehnica Napocensis , Electronics and Telecommunications ,volume 54, number 3, 2013 pp. 7-13.

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6. Ionut Brandusoiu, Gavril Todorean - "A NEURAL NETWORKS APPROACH FOR CHURN PREDICTION MODELING IN MOBILE TELECOMMUNICATIONS INDUSTRY" Facultatea de Electronica, Comunicatii si Calculatoare (FECC), Universitatea din Pitesti - University of Pitesti Scientific Bulletin, Series: Electronics and Computer Science, 2013,Vol. 13, Issue 1, pp. 1-10.

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9. A.Balogh, O. Buza, G. Todorean, "Real-time Platform for Vo - coder , poster la Sped 2013,Cluj Napoca,16-17 Octombrie

## VIN-L

1. C. RADU, MD. S. MAHBUB, L. VINTAN - *Developing Domain-Knowledge Evolutionary Algorithms for Network-on-Chip Application Mapping*, **Microprocessors and Microsystems**, vol. 37, issue 1, pp. 65-78, ISSN: 0141-9331, **Elsevier**, February 2013 (**cotata Thomson Reuters, IF=0.592** in 2012, **scor relativ de influenta al revistei: 0,489260143198091** in ianuarie 2012, cf. CNCS); V. <http://www.sciencedirect.com/science/article/pii/S0141933112001901>
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Preşedinte

Dumitru Stanomir