



ASTR

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RAPORT DE ACTIVITATE

pentru anul 2012

I. Activit i specifice în cadrul filialei

I.A. Participarea cu lucr ri din partea membrilor filialei în cadrul manifest rilor organizate de ASTR

1. **Atanasiu, G. M.**, Toma, A.M., 2012, SIS On seismic vulnerability evaluation in dense Urban Residential Areas using Spatial Information System, ASTR Conference 2012, to be published in Vol. Zilele academice ale ASTR (ISSN 2066-6586)/Bul. AGIR (ISSN 1224-7928) - revista de categorie B+ (CNCSIS), pp. 10.
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I.B. Organizarea i co-organizarea unor de manifest ri tiin ifice sub egida ASTR

1. A XVI-a Conferin Interna ional „System Theory, Control and Computing”, ICSTCC 2012, Sinaia, Noiembrie 11-12, 2012 (**M. Voicu, C. Laz r, O. P str vanu**)

II. Cercetare (publica ii, proiecte)

II.A. C r i i capitole în c r i

1. Zaharia, M.H., **Atanasiu G. M.**, Quality Needs of IT Infrastructure in Modern Earthquake Engineering Laboratories, in Fardis M., Z. T. Rakicevic (eds) Role of Seismic Testing Facilities in Performance Based Earthquake Engineering, 2012, SERIES WS, pp. 177-198, Springer-Verlag, 2011, ISBN: 978-94-007-1976-7 (Print) 978-94-007-1977-4
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7. Diana Trandab , Elena Irimia, Verginica Barbu Mititelu, **Dan Cristea**, Dan Tufi (2012) The Romanian Language in the Digital Age / Limba român în era digital , in White Paper Series, Eds. Georg Rehm and Hans Uszkoreit, Berlin, Springer, ISBN 978-3-642-30702-7, ISBN: 978-3-642-30702-7, 87 p.
8. T.Malutan, **V. I. Popa**, D.Cascaval 100 de ani de invatamant de inginerie chimica la Iasi, 1912-2012, Iasi, 2012, ISBN 978-973-0-13732-3
9. Severian Dumitriu (founder editor) and **Valentin Popa** (editor), Polymeric Biomaterials (2vols), Structure and function (vol I); Medicinal and Pharmaceutical Applications (vol II), CRC Press/Taylor& Francis, Publication Date: January 16, 2013 | ISBN-10:1420094726 | ISBN-13:978-1420094725 | Edition: 3
10. **Valentin I. Popa**, Lignin in Biological System, in Polymeric Biomaterials (2vols), Structure and function (vol I) Severian Dumitriu (founder editor) and Valentin Popa (editor), 2013, p.709-738
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1. **D. Alexa**, A.Sirbu, I.V.Pletea and T.C.Goras: "Hybrid Rectifier with Near-Sinusoidal Input Currents", IEEE Transactions on Industrial Electronics, July 2012, Vol.59, Number 7, pp.2947-2958. (ISI)
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 7. C. Andriesei, **L. Gora** , V. Maftai, Comment on “Compact, High-Q, and Low-Current Dissipation CMOS Differential Active Inductor” *IEEE Microwave and Wireless Components Letters*, Volume: 22 , Issue: 7 , 2012 , Page(s): 381 – 382 (ISI)
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2. Alexandra Ligia Balan and **Nicolae Dumitru Alexandru** “ISI-Free Pulses Produced by a Linear Combination of Two Polynomial Pulses”, 35th Internat. Conference on Telecommunications and Signal Processing - TSP, July 3-4, 2012, Prague, pp.182-185, IEEE Catalog Number: CFP1288P-CDR, ISBN: 978-1-4673-1116-8
3. Alexandra Ligia Balan, and **Nicolae Dumitru Alexandru**, “Improved Nyquist Filters with Piecewise Rectangular-Sine Frequency Characteristics”, Communications’2012, Bucharest, Romania, pp.67-70, ISBN: 978-1-4673-2573-8
4. **Nicolae Dumitru Alexandru**, “Power Spectral Density of MB 810 Code”, Proc. DAS 2012, pp.50-55, Suceava, Romania
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- International Conference INDIS 2012 (Planning, Design, Construction and Renewal in the Civil Engineering), Novisad, 28-30 November 2012, pp 279-286.
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II.D. Coordon ri / Particip ri în proiecte de cercetare-dezvoltare

Alexa D.

- Director „Electric power quality and energy saving using performant power converters for the knowledge based economy”, Code PN-II-ID-PCE-2011-3-0520, Host Institution: SC COMFRAC R&D PROIECT EXPERT SRL, Bucure ti Sector3,

Atanasiu G. M.

- Task leader in FP7 – SERIES Project, GA 227887/2009
- Director proiect RO- SERIES in PNCDII 2007-2013, Modul Capacit i
- Membru echip în ENISTAT Project, TA- SERIES, proiect - FP7, leader CEA, Saclay, Fran a.

Cristea D.

- 2010 – 2013, Responsabil UAIC, ATLAS (Applied Technology for Language-Aided CMS), CIP-ICT-PSP-2009-3, European Commission, Grant agreement no. 250467

- 2011 – 2013, Responsabil UAIC, METANET4U, CIP-ICT-PSP-2009-4, European Commission, Grant agreement no. 270893

Lazăr C.

- responsabil partener pentru Universitatea Tehnică „Gheorghe Asachi” din Iași, în cadrul proiectului strategic Creșterea competitivității întreprinderilor prin perfecționarea și specializarea resurselor umane în domeniul noilor tehnologii, într-o societate bazată pe cunoaștere pentru o dezvoltare durabilă. Partener principal: Universitatea Politehnică din București, contract nr. POSDRU/81/3.2/S/53, 2010 – 2013.
- Membru al proiectului de cercetare CNCS - IDEI Diagonal stability and flow invariance in system engineering. Techniques specialized for classes of dynamics, encompassed by a unified framework, PN-II-ID-PCE-2011-3-1038, Contract de finanțare 208/05.10.2011 (2011 – 2014), director prof. dr. ing. O. Păstrăvanu.
- Expert pe termen lung în cadrul proiectului strategic Rețea Națională de centre pentru dezvoltarea programelor de studii cu rute flexibile și a unor instrumente didactice la specializarea de licență și masterat, din domeniul Ingineria Sistemelor. Partener principal: Universitatea Tehnică de Construcții din București, contract nr. POSDRU/ 86 / 1.2 / S / 63806, 2010 – 2013, manager proiect prof. dr. ing. M. Marinescu.
- Expert pe termen lung (tutore) în cadrul proiectului strategic Performanță prin postdoctorat pentru integrarea în aria europeană de cercetare (PERFORM - ERA), contract nr. POSDRU/89/1.5/S/57649, 2011-2013, manager proiect prof. dr. ing. M. Popa.

Păstrăvanu O.

- Director al proiectului de cercetare CNCS - IDEI Diagonal stability and flow invariance in system engineering. Techniques specialized for classes of dynamics, encompassed by a unified framework, PN-II-ID-PCE-2011-3-1038, Contract de finanțare 208/05.10.2011 (2011 – 2014)

Popa V. I.

- COST Action FP0901, Analytical tools for biorefineries,

Popa N.

- Dezvoltarea și susținerea de programe postdoctorale multidisciplinare în domeniile tehnice prioritare ale strategiei naționale de cercetare - dezvoltare - inovare” 4D-POSTDOC, contract nr. POSDRU/89/1.5/S/52603 – expert.
- Burse doctorale pentru performanță în cercetare la nivel European - (EURODOC) ID 59410 - expert
- Studii Doctorale pentru performanță europene în cercetare și inovare (CUANTUMDOC)” ID 79407 - expert

Voicu M.

- responsabil partener pentru Universitatea Tehnică „Gheorghe Asachi” din Iași, în cadrul proiectului strategic Rețea Națională de centre pentru dezvoltarea programelor de studii cu rute flexibile și a unor instrumente didactice la specializarea de licență și masterat, din domeniul Ingineria Sistemelor. Partener principal: Universitatea Tehnică de Construcții din București, contract nr. POSDRU/ 86 / 1.2 / S / 63806, 2010 – 2013

III. Prezentări invitate / Comunicări

1. **Alexandru, N.**, Invited paper la Exploratory Workshop (EW) on Distributed Generation Systems (DGS) integrating Renewable Energy, noiembrie 2012, Pitești,

- Romania.
2. **Alexandru, N.**, Prelegeri sus inute în martie 2012 la Katolische Hogeschool Sint Lieven, Gent, Belgia.
 3. **Dan Cristea**, Ionuț Pistol (2012). Multilingual linguistic workflows. A case study for two languages. Invited conference at the *Crosslingual Language Technology* event – Univ. Hamburg, 7-8 May 2012.
 4. **Dan Cristea** (2012). In honor of Prof. Walther von Hahn at his 70th anniversary, Univ. Hamburg, 8 May.
 5. **P str vanu, O.**, Matcovschi, M., **Voicu, M.**, Stabilitatea diagonal a sistemelor politopice cu un vârful dominant, Zilele Academice Ie ene, Comisia de automatic teoretic i teoria controlului optimal, Octombrie 19-20, 2012.
 6. C.Tanase, I.Wolf and **V. I. Popa**, Deuterium depleted water (DDW) and spruce polyphenols extract implicate in Zea mays L. plant growth and development (abstract pg.58) Sesiunea stiintifica anuala a facultatii de Biologie (UAIC), Iasi, 26-27 oct.2012.
 7. R.E.Ghitescu, I. Volf and **V. I. Popa**, Ultrasound assisted extraction of polyphenols from spruce bark, Centenary of Education in Chemical Engineering, Iasi, November, 28-30, 2012 Iasi, Romania,
 8. **ranu N.**, Civil engineering PhD International Conference, 4-7 November 2012, Cluj Napoca
 9. **Voicu M.**, Robust controller including a modified Smith predictor for AQM supporting TCP flows; comunicare în cadrul First International Workshop Cyber Physical Systems (IWoCPS - 1), Romanian Academy Bucharest, Romania May 28-29, 2012).

IV. Activit i editoriale – Membri în colective de redac ie, comitete de program, referen i, recenzii

Alexandru, N. D.

Membru în Technical Program Committee (TPC) i recenzent la COMMUNICATIONS 2012, Bucure ti

Membru în International Steering Committee (ISC) i recenzent DAS'2012 Suceava Chairperson la Exploratory Workshop (EW) on Distributed Generation Systems (DGS) integrating Renewable Energy, noiembrie 2012, Pite ti, Romania.

Membru în International scientific board al revistei "Advances in Electrical and Computer Engineering", Suceava.

Recenzent la IEEE Communications Letters

ECUMICT. European Conference on the Use of Modern Information and Communication Technologies, 2012, Gent. Member of Scientific Committee

COMM 2012 : 9th International Conference on Communications, Bucure ti, June 21-23, 2012, Member of Technical Program Committee i recenzent

Atanasiu G. M.

Membru IPC the 3rd IALCCE Int. Symposium, www.ialcce2012.org

Evaluator FP7, RCSC, Call 2012, European Commission, November 2012

Recenzent Third International Symposium on Life Cycle Civil Engineering, IALCCE 2012, Viena, www.ialcce.org.

Cristea D.

Membru în Comitetul Program la ACL (The 50th Annual Meeting of the Association for Computational Linguistics: Discourse and Dialogue track), Jeju, Korea, 8-14 July 2012

Membru în Comitetul Program la ACL (The 50th Annual Meeting of the Association for Computational Linguistics: Applications track), Jeju, Korea, 8-14 July 2012.

Membru în Comitetul Program la CICLing-2012 (13th International Conference on Intelligent Text Processing and Computational Linguistics, March 11–17, 2012, Indian Institute of Technology Delhi New Delhi, India <http://www.cicling.org/2012/>).

Membru în Comitetul Program la LREC-2012, Language Resources and Evaluation Conference, Istanbul, 23-25 May 2012, <http://www.lrec-conf.org/lrec2012/>.

Membru în Comitetul Program la Advanced Treebanking workshop, in connection with LREC-2012, Istanbul, 22 May 2012, <http://www.meta-net.eu/meta-research/events/lrec2012-treebanking-workshop/>

Membru în Comitetul Program la International Conference on Web Intelligence, Mining and Semantics, June 13-15, 2012, Craiova, Romania.

Membru în Comitetul Program la ediția a 8-a a ConsILR (sesiunea 2012), Conferința Resurse Lingvistice și Instrumente pentru Prelucrarea Limbii Române, 29-30 martie 2012, București, http://consilr.info.uaic.ro/consilr2011-12/ro/comitet_program.html.

Membru în Comitetul Program al The 15th International Conference on Artificial Intelligence: Methodology, Systems, Applications and International Workshop on Advances in Robot Learning and Human-Robot Interaction, AIMSA-2012, Varna, September 13 – 15.

Recenzent pentru Central European Journal for Computer Science - <http://www.springer.com/computer/journal/13537>

Recenzent pentru Journal of Language Modelling (JLM) - <http://nlp.ipipan.waw.pl/ojs/index.php/JLM/index>

Recenzent pentru Language Resources and Evaluation <http://www.springer.com/education+%26+language/linguistics/journal/10579>

Lazăr C.

Annals of „Dunarea de Jos” University of Galați - colectiv de redacție

Buletinul Institutului Politehnic Iași – Secția automatizări și calculatoare – colectiv de redacție

CUBE 2012 International Information Technology Conference and Exhibition, September 3-5, 2012, Pune, Maharashtra State, India – comitet de program

The 16th International Conference on System Theory, Control and Computing, October 12 – 14, 2012, Sinaia – comitet de program

The 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM), 23-25 May, 2012, Bucharest – referent

The 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), 24-26 May, 2012, Brasov – referent

The IFAC Conference on Nonlinear Model Predictive Control 2012 (NMPC'12), August 23 - 27, 2012, Noordwijkerhout, the Netherlands – referent

The 16th International Conference on System Theory, Control and Computing (ICSTCC), 12-14 October, 2012, Sinaia - referent

Păstrăvanu O.

Zentralblatt für Mathematik - recenzent

Mathematical Reviews - recenzent

IEEE Transactions on Automatic Control - referent

Systems and Control Letters - referent

Electronics and Electrical Engineering referent

The Open Automation and Control System Journal (Bentham Science Publishers) – colectiv de redacție

The Open Cybernetics & Systemics Journal (Bentham Science Publishers) – colectiv de redacție
 International Journal of Advanced Intelligence Paradigms – referent
 Control Engineering and Applied Informatics (SRAIT) – referent
 Proc. Rom. Acad, Seria A - referent
 Revista Română de Informatică și Automatică (ICI) - colectiv de redacție
 Buletinul Institutului Politehnic Iași – Secția automatizări și calculatoare – colectiv de redacție
 ICSTCC 2012, Sinaia (conferință IEEE) - comitet de program
 AQTR 2012 Cluj-Napoca (conferință IEEE) - comitet de program
 SACI 2012, Timișoara (conferință IEEE) - comitet de program
 ADHS 2012 Eindhoven (conferință IFAC) - comitet de program
 CDC 2012, Hawaii (conferință IEEE) - referent

Popa V. I.

Cellulose Chemistry and Technology, Editura Academiei – Editor șef
 Celuloză și Hârtie - colectiv de redacție
 Environmental Engineering and Management Journal - colectiv de redacție
 Buletinul I. P.I. - colectiv de redacție
 Wiley Interdisciplinary Reviews: Energy and Environment – referent,
 JAPS – referent
 Cellulose – referent,
 EEMJ – referent,
 Pro Ligno – referent,
 Carbohydrate Polymers – referent,
 Industrial & Engineering Chemistry Research – referent,
 eXPRESS Polymer Letters – referent,
 FOODCHEM – referent,
 Biotechnology for Biofuels – referent
 International Symposium in the fields of Pulp, Paper, Packaging and Graphics, 2012, Serbia - comitet de program

Voicu M.

Zentralblatt für Mathematik - recenzent
 Mathematical Reviews - recenzent
 Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science (ISI) - colectiv de redacție și referent
 Romanian Journal of Information Science and Technology (ROMJIST) (ISI) - colectiv de redacție și referent
 Revista Română de Informatică și Automatică (ICI) - colectiv de redacție
 Control Engineering and Applied Informatics (SRAIT) (ISI) - colectiv de redacție și referent
 Buletinul Institutului Politehnic Iași – editor onorific
 Transactions on Automatic Control and Computer Science, Univ. „Politehnica” din Timișoara - colectiv de redacție
 Quality Assurance Review for Higher Education, ARACIS, București - colectiv de redacție
 2nd Int. Conference on Control, Automation and Robotics (CAR 2012), Bangkok - comitet de program
 Vice Chair, 16th International Conference on Systems Theory, Control and Computing, Sinaia 2012; technically co-sponsored by IEEE Control Systems Society; indexed in IEEE Xplore
 AQTR 2012 Cluj-Napoca (conferință IEEE) - comitet de program

SACI 2012, Timi oara (conferin IEEE) - comitet de program
IEEE Transactions on Automatic Control (ISI) – referent
15th IFAC Workshop on Control Applications of Optimization (CAO), 2012) –
referent
51st IEEE Conference on Decision and Control – referent

V. Contribu ii deosebite la cre terea vizibilit ii interna ionale a cercet rii tiin ifice din domeniul tehnic în România

- Elaborarea a 18 articole publicate / în curs de apari ie în reviste cotate ISI – Web of Science.
- Co-organizarea celei de a XVI-a Conferin Interna ional „System Theory, Control and Computing” - indexat IEEE Xplorer.

Pre edinte,
prof. univ. dr. ing. Mihail Voicu
m.c. al Academiei Române

Secretar,
prof. univ. dr. ing. Octavian P str vanu