



## **ASTR** **Filiala Ia i**

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Ia i, 15 mai 2012

### **RAPORT DE ACTIVITATE** **pentru anul 2011**

#### **I. Activit i specifice în cadrul filialei**

##### **I.A. Participarea cu lucr ri din partea membrilor filialei la Edi ia a VI-a a Conferin ei Na ionale a Academiei de tiin e Tehnice din România, 2011**

1. **D.Precupanu**, St. Oprea The stability of bent beams considering the influence of the bending moment and the warping torsion..
2. **D.Precupanu**, St. Oprea The stability of bent beams considering the influence of the bending moment and the the shear force..

##### **I.B. Prezentarea unor referate tiin ifice i tehnice, pe teme de interes general, în cadrul edin elor lunare ale filialei**

1. Dispozitive de tip memristor – Prof. dr. ing. **Liviu Gora** (mai 2011)

##### **I.C. Mese rotunde de specialitate, pe profilul sec iilor ASTR**

1. Criterii pentru evaluarea tezelor de doctorat din domeniul tehnic – Organizator: Prof. dr. ing. **Octavian P str vanu** (octombrie 2011)

##### **I.D. Organizarea i co-organizarea unor de manifest ri tiin ifice sub egida ASTR**

1. Al X-lea Simpozion Interna ional „Signals, Circuits and Systems”, 29 iunie – 1 iulie, Ia i, 2011 (**L. Gora** )
2. A XV-a Conferin Interna ional „System Theory, Control and Computing”, 14-16 octombrie 2011, Sinaia (**M. Voicu, O. P str vanu**)

## II. Cercetare (publica ii, proiecte)

### II.A. C r i i capitole în c r i

1. **Voicu M.** (ed.), Proc. of the 15th Int. Conf. on System Theory, Control and Computing (Joint conference of SINTES15, SACCS11, SIMSIS15), October 14-16, 2011, Sinaia, Romania; technically co-sponsored by IEEE Control Systems Society, <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=6078720>. *Editura Politehniun*, ISBN 978-973-621-322-9 (print), ISBN 978-973-621-323-6 (CD), ISBN 978-973-621-321-2 (IEEE-Xplore), Ia i, 2011.
2. **V.I.Popa**, A.P.Stingu and I.Volf, Chap.4 Lignins and polyphenols in bioremediation, in *Bioremediation Technology*, 1<sup>st</sup> Edition, Ed. Fulekar M.H. Springer, p 100-134, 2010, ISBN 978-90-481-3677-3
3. D.Ciolacu and **V.I.Popa**, Chap.1 Cellulose allomorphs-overview and perspectives, in *Cellulose: structure and properties, derivatives and industrial uses*, Eds. A.Lejeune and T.Deprez, Nova, Publishers, 2010, p.1-38, ISBN: 978-1-60876-388-7
4. D.Ciolacu and **V.I.Popa**, Cellulose allomorphs: structure, accessibility and reactivity, Nova Publishers, 2010 ISBN: 978-1-61668-323-8
5. **Valentin Popa**, Editor, Polysaccharides in medicinal and pharmaceutical applications, Smithers Rapra, 2011, 408 p., ISBN: 978-1-84735-436-5 (hardback)
6. **Valentin Popa**, Chap. 2 Hemicelluloses in pharmacy and medicine in *Polysaccharides in medicinal and pharmaceutical applications*, Ed. Valentin Popa, Smithers Rapra, 2011, ISBN: 978-1-84735-436-5 (hardback), p.57-88

### II.B. Articole în reviste

1. **N.D. Alexandru**, and A. L. B lan, „Improved Nyquist Filters with Piece-Wise Parabolic Frequency Characteristics”, *IEEE Communication Letters*, May, pp. 473–475, 2011.
2. **N.D. Alexandru**, and A. L. B lan, „ISI-free pulses produced by improved Nyquist filter with piece-wise linear characteristic”, *Electronics Letters*, Vol.47, 4, pp. 256–257, 2011.
3. **Alexa D.**, Sirbu A., Pletea I.V. and Goras T.C. “Hybrid Rectifier With Near-Sinusoidal Input Currents”, *IEEE Trans.on Industrial Electronics*, vol.58, nr.12, pp , December 2011
4. **Alexa D.**, SirbuA., Pletea I.V., Filote C. and Chiper R. “Variants of rectifiers with near sinusoidal input currents – A comparative analysis with the conventional diode rectifier”, *IET Power Electronics*, vol.4, no.6, pp. 632-641, July 2011
5. Manuela Mocanu, R zvan Vieru, Arcadie Cracan, Pavel-Viorel Brînzoi, **Liviu Gora** , *An Integrated Voltage Controlled Current Scolor*, Buletinul Institutului Politehnic din Ia i , Tomul LVII (LXI), Fasc. 2
6. **O. Pastravanu**, M.H. Matcovschi, Comments on “Assessing the Stability of Linear Time-Invariant Continuous Interval Dynamic Systems”, *IEEE Trans. Automatic Control*, vol. 56, no. 6, pp. 1442-1445, 2011, DOI: 10.1109/TAC.2011.2122650, ISSN: 0018-9286.
7. **O. Pastravanu**, M.H. Matcovschi, Invariance Properties of Interval Dynamical Systems, *International Journal of Systems Science*, vol. 42, issue 12, pp. 1993-2007, 2011, DOI: 10.1080/00207721003706845, ISSN: 0020-7721.
8. I. Ignat, I. Volf and **V. I. Popa**, A critical review of methods for characterisation of polyphenolic compounds in fruits and vegetables, *Food Chemistry* 126 (4) 1821–1835 (2011); DOI information: 10.1016/j.foodchem.2010.12.026
9. D. Ciolacu, F. Ciolacu and **V. I. Popa**, Amorphous Cellulose- Structure and

- characterization, *Cellulose Chem. Technol.*, 45 (1-2), 13-21 (2011)
10. L. Ignat, M. Ignat, C. Ciobanu, F. Doroftei, **V.I. Popa**, Effects of flax lignin addition on enzymatic oxidation of poly (ethylene adipate) urethanes. *Ind. Crops Prod.* (2011), doi:10.1016/j.indcrop.2011.03.010, 34 (1) 1017– 1028 (2011)
  11. A.R. Hainal, I. Ignat, I. Volf and **V.I. Popa**, Transformation of polyphenols from biomass by some yeast species *Cellulose Chem. Technol.*, 45 (3-4), 211-219 (2011)
  12. I.A. Gilca, A.M. Capraru, S. Grama and **V.I. Popa**, Agents for wood bioprotection based on natural aromatic compounds and their complexes with copper and zinc, *Cellulose Chem. Technol.*, 45 (3-4), 227-231 (2011)
  13. I. Ignat, V. Neagu, I. Bunia, C. Paduraru, I. Volf and **V.I. Popa**, A comparative study on adsorption of gallic acid onto polymeric adsorbents with amine functional groups, *Cellulose Chem. Technol.*, 45 (3-4), 251-256 (2011).
  14. A. Stingu, I. Stanescu, I. Volf and **V.I. Popa**, Hyperaccumulation of cadmium in maize plant (*Zea mays*) *Cellulose Chem. Technol.*, 45 (3-4), 287-290 (2011)
  15. I. Ignat, A. Stingu, I. Volf and **V.I. Popa**, Characterization of grape seeds aqueous extract and possible application in biological systems, *Cellulose Chem. Technol.*, 45 (3-4), 205-209 (2011)
  16. **V.I. Popa**, A.M. Capraru, S. Grama and T. Malutan, Nanoparticles based on modified lignins with biocide properties, *Cellulose Chem. Technol.*, 45 (3-4), 221-226 (2011)
  17. L. Ignat, M. Ignat, E. Stoica, C. Ciobanu and **V.I. Popa**, Lignin blends properties with polyurethane-contains lactate segments properties and enzymatic degradation effects, *Cellulose Chem. Technol.*, 45 (3-4), 233-243 (2011)
  18. A. Stingu, I. Volf and **V.I. Popa**, Spruce bark extract as modulator in rape plant copper bioaccumulation *Cellulose Chem. Technol.*, 45 (3-4), 281-286 (2011)
  19. I.A. Gilca, A.C. Puitel and **V.I. Popa**, Possibilities of biorefining of some secondary products resulted from bast fibers processing, *Celuloza si Hartie*, 60 (3), 33-38 (2011)

## II.C. Articole în volum de conferințe

1. S. Pohoășă, **N.D. Alexandru**, A. Popa, “An Approximation of Gaussian Pulses”, PECCS 2011, Vilamoura, Portugal, pp.359-364
2. **N.D. Alexandru**, „Trends in Communication Technology used in Automotive Field”, Proc. ECAI, Pitești, Vol.4, No.1/2011, pp.77-82.
3. Alexandra Ligia Balan, **Nicolae Dumitru Alexandru**, “Construction of the New Improved Nyquist Filters Using Interpolation with Polynomial Functions”, Proc. ISSCS 2011, Iași, pp.261-264.
4. Sorin Pohoășă, Adrian Popa, **Nicolae Dumitru Alexandru**, “Approximation of the Third Derivative of the Gaussian Pulse”, Proc. ISSCS 2011, Iași, pp.265-268.
5. Alexandra Ligia BALAN, **N.D. Alexandru**, “New Techniques Used For Designing Improved Nyquist Filters”, *Proc. IASTED Internat. Conf. Signal and Image Processing and Applications (SIPA)* June 22 - 24, 2011 Crete, Greece, pp.39-46.
6. Sorin Pohoășă, **Nicolae Dumitru Alexandru**, Adrian Popa, “A Comparison of Bell-Shape Pulses”, *Proc. IASTED Internat. Conf. Signal and Image Processing and Applications (SIPA)* June 22 - 24, 2011 Crete, Greece, pp.84-87.
7. Catalina Monica Fira, **Liviu Goras**, Constantin Barabasa, Nicolae Cleju, „*ECG compressed sensing based on classification in compressed space and specified dictionaries*”, EUSIPCO 2011 (The 2011 European Signal Processing Conference), 29 august – 2 septembrie 2011, Barcelona, Spania
8. M. Fira, **L. Goras**, N. Cleju, C. Barabasa „*On the classification of compressed*

- sensed signals*”, lucrare acceptata la conferinta ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), 30 Iunie – 1 Iulie 2011, Iasi
9. Nicolae Cleju, Monica Fira, Conctantin Barabasa, **Liviu Goras**, „*Robust reconstruction of compressively sensed ECG patterns*”, ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), 30 Iunie – 1 Iulie 2011, Iasi
  10. Ion Vornicu, **Liviu Goras**, “On the design of a class of CNN’s for ECG classification”, 20th European conference on circuit theory and design (ECCTD 2011), pag. 153-156.
  11. Ion Vornicu, **Liviu Goras**, “On the Possibilities of Using a Class of CNN’s for Image, Processing and Classification, 20th European conference on circuit theory and design (ECCTD 2011), pag. 237-240.
  12. **Liviu Goras**, Paul Mihai Pu ca u, Spatio-Temporal Dynamics in Cellular Neural Networks with Nonideal OTA’S, 2011 International Semiconductor Conference, CAS Sinaia 2011 pp 405-408.
  13. Radu Matei, **Liviu Goras**, Two-dimensional filter design based on frequency mapping of analog prototype filters, 20th European conference on circuit theory and design (ECCTD 2011), Linkoping, Sweden, pp. 326 – 329
  14. M. Pistol, M. Mocanu, R. Ghinea, **L. Goras**, Non-Ideal Behavior of a Comparator-Based Relaxation Oscillator, CAS 2011, Sinaia , Romania pp. 365-368
  15. C. Andriesei, N. Patache, **L. Gora** , F. Temcamani, B. Delacressonniere, Considerations on the RLC model of CMOS Active Transistors Only Simulated Inductors Models, ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), Iasi, Romania
  16. Dragos Costachescu, **Liviu Goras**, Martin Pfof, Accurate Temperature Estimation in Large DMOS Transistors using a Semi-Empirical Thermal Conductivity Model, ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), Iasi, Romania
  17. Radu-Lauren iu Vieriu, Bogdan Gora , **Liviu Gora** , On HMM Static Hand Gesture Recognition, ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), Iasi, Romania
  18. Pavel Brînzoi, **Liviu Gora** , Scalar Based Electrically Controlled Impedances, ISSCS 2011 (The 10-th International Symposium on Signals, Circuits and Systems), Iasi, Romania
  19. **Alexa D.**, Goras T.C., Buzatu N.R., Pletea M., Serediuc A., Pletea I.V., Alexandrescu A. „Hybrid rectifier with near-sinusoidal input currents”, ISSCS 2011, International Symposium on Signals, Circuits and Systems, Iasi 2011, pp. 515-518
  20. **O. Pastravanu**, M.H. Matcovschi, and **M. Voicu**, Qualitative analysis results for arbitrarily switching positive systems, *Proc. of the 18-th World Congress of IFAC*, Milan, Italy. DOI: 10.3182/20110828-6-IT-1002.03548, 6pag. on DVD, <http://b-dig.iie.org.mx/BibDig2/P11-0488/papers/3548.pdf>
  21. M.H. Matcovschi, **O. Pastravanu**, On the Boundedness of Cellular Neural Network Trajectories, *Proc. of the 10-th IEEE International Symposium on Signals, Circuits and Systems ISSCS 2011*, June 30-July 2, 2011, Iasi, Romania, 4 pg, DOI:0.1109/ISSCS.2011.5978687
  22. M.H. Matcovschi, **O. Pastravanu**, and **M. Voicu**, On Some Properties of Diagonally Stable Polytopic Systems, *Proc. of the 15th International Conference on System Theory, Control and Computing - ICSTCC 2011* (Joint International Conference SINTES 15, SACCS 11, SIMSIS 15), pp. 353-358, October 14 - 16, 2011, Sinaia, Romania, IEEE Catalog Number CFP1136P-PRT, ISBN: 978-973-621-322-9.
  23. D. Florescu, M.H. Matcovschi, **O. Pastravanu**, Improving Rohn Approximation for

- the Real Parts of Interval Matrix Eigenvalues, *Proc. of the 15th International Conference on System Theory, Control and Computing - ICSTCC 2011* (Joint International Conference SINTES 15, SACCS 11, SIMSIS 15), pp. 231 – 236; October 14 - 16, 2011, Sinaia, Romania, IEEE Catalog Number CFP1136P-PRT, ISBN: 978-973-621-322-9.
24. N. Ghi , M. Kloetzer, **O. Pastravanu**, Probabilistic car-like robot path planning from temporal logic specifications, *Proc. of the 15th International Conference on System Theory, Control and Computing - ICSTCC 2011* (Joint International Conference SINTES 15, SACCS 11, SIMSIS 15), pp. 249 – 254; October 14 - 16, 2011, Sinaia, Romania, IEEE Catalog Number CFP1136P-PRT, ISBN: 978-973-621-322-9.
  25. **O. Pastravanu**, M.H. Matcovschi, **M. Voicu**, Diagonal Stability of Polytopic Systems with a Dominant Vertex, *Proc. of the 18-th International Conference on Control Systems and Computer Science CSCS 18*, Bucuresti, May 25-27 2011.
  26. I.Ignat, I.Volf and **V.I.Popa**, Assesment on phenolic profile of hawthorn (*Crataegus* spp.) extracts, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, 2011, Stockholm, Sweden, p.377-378
  27. **V.I.Popa**, A.Stingu and I.Volf, New directions in using natural bioactive compounds from grape seeds extract as natural amendment in heavy metal contaminant soil, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, 2011, Stockholm, Sweden, p.379-380
  28. **V.I.Popa**, A.M.Capraru, Silvia Grama and Teodor Malutan, Biocides based on lignin derivatives for wood protection, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, 2011, Stockholm, Sweden, p.381-382
  29. **V.I.Popa** and T.Todorciuc, Lignin based coverage treatment for paper support, Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, 2011, Stockholm, Sweden, p.383-384
  30. **V.I.Popa**, A.Hainal and I.Volf, Influence of lignin products on the development of yeast strains *Rhodotorula* spp. Proceedings of The third Nordic Wood Biorefinery Conference, March, 22-24, 2011, Stockholm, Sweden, p.385-386
  31. I.A.Gilca, C.Peptu and **V.I.Popa**, Obtaining nanoparticles based on lignin, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 2011, p.54-57, ISBN 978-88-95688-65-7
  32. A.Stingu, **V.I.Popa**, I.Ignat and I.Volf, Phenolics profile of *Aesculus hippocastanum* extract and possibilities to use them in phytoremediation process, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 2011, p.133-136, ISBN 978-88-95688-65-7
  33. I.Ignat, M.Neamtu, I.Volf and **V.I.Popa**, Stability of plant polyphenols against UV radiation, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 2011, p.141-145, ISBN 978-88-95688-65-7
  34. A.R. Hainal, **V.I.Popa** and I.Volf, Study of interaction between copper ions and aqueous extracts from the bark of *Picea abies* in the culture of *Rhodotorula* species, Proceedings of Italic 6, Tuscia University, Viterbo, Italy, September 5-8, 2011, p.353-356, ISBN 978-88-95688-65-7
  35. I.A.Gilca, A.C.Puitel and **V.I.Popa**, Possibilities of biorefining of some secondary products resulted from bast fibers processing, Proceedings of The 6<sup>th</sup> International Symposium on Advanced Technologies for the Pulp and Paper Industry, Braila Romania, September 6-9, 2011 ISBN-978-973-7909-11-4

## **II.D. Coordonari / Participari în proiecte de cercetare-dezvoltare**

### **Alexa D.**

- Director Alexa Dimitrie, Project title: „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, Bucuresti Sector3, Valoarea Proiectului: 490000 lei.

### **Cristea D.**

- 2007-2011 responsabil al proiectului FP7 CLARIN și membru al Executive Board. Chief-editor al revistei electronice CLARIN Newsletter ([www.clarin.eu/newsletter](http://www.clarin.eu/newsletter))
- 2010-2013 (în derulare): responsabilul proiectului european PSP ICT ATLAS

### **Gora L.**

- „Sistem de investigație, asistare și control al afecțiunilor neurologice bazat pe interfața creier-calculator” – acronim BCISIS, Parteneriate în domenii prioritare, 2008 – 2011, Contract nr.: 12115 / 01.10.2008, Cod proiect: 3332, Instituția coordonatoare: Universitatea de Medicină și Farmacie Gr. T. Popa Iași, Director proiect: conf. Dr. ing. Anca Lazăr
- „Arii de micro/nanosenzori de prag pentru detecția în timp real a contaminării mediului acvatic cu agenți chimici” – acronim AQUAPROTECT, Parteneriate în domenii prioritare, 2008 – 2011, Contract nr: 12103 / 28.10.2008, Cod proiect: 2659, Instituția coordonatoare: Institutul Național de Cercetare Dezvoltare pentru Microtehnologie București, Director proiect: Dr. Ileana Cernica
- „Algoritmi și arhitecturi paralele pentru achiziția, compresia și prelucrarea semnalelor”, PN II – IDEI, Proiecte de cercetare exploratorie, 2009 – 2011, Contract nr: 648 / 19.01.2009, Cod proiect: ID\_310, Director proiect : prof. Dr. ing. Liviu Gora

### **Păstravanu 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)
- Tehnologii informatice de timp real pentru sistemele incorporate care asigură controlul lanțului de transmisie a puterii la autovehicule (SICONA), CNMP – Parteneriate în domenii prioritare, Contract finanțare 12100 / 2008, Instituția coordonatoare: Universitate Tehnică Iași, director prof. dr. ing. Corneliu Lazăr, (2008 – 2011)
- 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

### **Voicu M.**

- 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
- Curtu I. (coordonator), Voicu M. Almoreanu M., Lache S., Cret, O. (experți evaluatori științifici inginerie); Asigurarea calității în învățământul superior din

România în context european. Dezvoltarea managementului calității academice la nivel de sistem instituțional, Contract nr. POSDRU/2/1.2/S/1, cod 3933, 2009, activitatea nr. IV.1, Indicatori de calitate terțiari pentru tiin e inginerie ti, ARACIS, Bucure ti

### III. Prezent ri invitate / Comunic ri

1. **Alexandru N. D.**, “Trends in Communication Technology used in Automotive Field” – invited speaker, ECAI 2011, Pite ti, Romania.
2. **O. Pastravanu**, M.H. Matcovschi, **M. Voicu**, Qualitative analysis results for arbitrarily switching positive systems. *Zilele Academice Ie ene*, 17 sept. 2011, Iasi.
3. M.H. Matcovschi, O. Pastravanu and **M. Voicu**, Right Bounds for Eigenvalue Ranges of Interval Matrices. Estimation principles vs global optimization. *Zilele Academice Ie ene*, 17 sept. 2011, Iasi
4. . I.Ignat, I.Volf and **V. I.Popa**, Characterization of extractives from some raw materials processed by biorefining COST Action FP0901 Analytical tools for biorefenery, January, 25-26, 2011 Paris, France
5. A.M. Capraru, E.Ungureanu, L.C.Trinca and **V.I.Popa**, Study concerning modification of spruce wood bark by hydroxymethylation reaction, Simpozionul stiintific anual cu participare internationala USAMV Iasi, Mai, 2011
6. A.M. Capraru, E.Ungureanu, L.C.Trinca and **V.I.Popa**, Contributions concerning the treatment of birch veneer with lignins modified and copper compounds, Simpozionul stiintific anual cu participare internationala USAMV Iasi, Mai, 2011
7. C. Tanase, A. Stingu, I.Volf and **V.I.Popa**, The influence of spruce bark aqueous extract in combination with deuterium depleted water on *Glycine max* L. plant, Simpozionul stiintific anual cu participare internationala USAMV Iasi, Mai, 2011
8. C.Tanase, A.R. Hainal, I.Ignat, I.Volf and **V.I.Popa**, Deveelopment of *Rhodotorula* yeast strain under the influence of polyphenolic compounds in the presence of copper ions, Simpozionul stiintific anual cu participare internationala USAMV Iasi, Mai, 2011

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

#### **Alexandru, N. D.**

International Workshop on Propagation and Channel Models for Next Generation Wireless Systems, March 2-4, 2011, Lyon, France comitet de program  
ECAI'2011 Pite ti comitet de program  
ISSCS 2011, Ia i, România - referent  
IEEE Transactions on Communications - referent  
IET Proceedings referent  
IEEE Proceedings referent

#### **P str vanu O.**

Zentralblatt für Mathematik - recenzent  
Mathematical Reviews - recenzent  
IEEE Transactions on Automatic Control - referent  
Nonlinear Analysis: Hybrid Systems (Elsevier) referent  
The Open Automation and Control System Journal (Bentham Science Publishers) – colectiv de redac ie  
The Open Cybernetics & Systemics Journal (Bentham Science Publishers) – colectiv

de redac ie  
Control Engineering and Applied Informatics (SRAIT) referent  
Revista Român de Informatic i Automatic (ICI) - colectiv de redac ie  
Buletinul Institutului Politehnic Ia i – Sec ia automatic i calculatoare – colectiv de redac ie  
Conferin a the 50th IEEE Conference on Decision and Control, CDC 2011, Orlando, Florida, USA, December 12-15, 2011 – referent  
World Congress of International Federation of Automatic Control, Milano, 2011 – referent  
The 15th International Conference on System Theory, Control and Computing, October 14 – 16, 2011, Sinaia comitet de program

**Popa V. I.**

Cellulose Chemistry and Technology, Editura Academiei – Editor ef  
Celuloz i Hârtie colectiv de redac ie  
Environmental Engineering and Management Journal colectiv de redac ie  
Buletinul I. P.I. colectiv de redac ie  
Biomacromolecules – referent  
Holzforschung – referent  
Journal of Applied Polymer Science – referent  
Industrial Crop Production – referent  
17th International Symposium in the field of Pulp, Paper, Packaging and Graphics, Zlatibor, Serbia, comitet de program  
ICEEM 06 -6<sup>th</sup> International Conference Environmental Engineering and Management - Green Future-Balaton , Hungary - comitet de program  
EPNOE 2011, 2nd EPNOE International Polysaccharide Conference "Polysaccharides as Source of Advanced and Sustainable Materials" Wageningen, The Netherlands – comitet de program

**ranu N.**

Ia i Polytechnic Institute Bulletin Construction and Architecture, (rev. BDI, cotat B+ de c tre CNCSIS) Editor in chief

**Voicu M.**

Zentralblatt für Mathematik recenzent  
Mathematical Reviews recenzent  
Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science - colectiv de redac ie  
Romanian Journal of Information Science and Technology (ROMJIST) - colectiv de redac ie  
Revista Român de Informatic i Automatic (ICI) - colectiv de redac ie  
Control Engineering and Applied Informatics (SRAIT) - colectiv de redac ie  
Buletinul Institutului Politehnic Ia i – editor onorific  
Transactions on Automatic Control and Computer Science, Univ. „Politehnica” din Timi oara - colectiv de redac ie  
Quality Assurance Review for Higher Education, ARACIS, Bucure ti - colectiv de redac ie  
International Workshop on Nonlinear Dynamics and Synchronization, Klagenfurt 2011 - comitet de program  
International Conference on Control, Automation and Robotics, Singapore, 2011 - comitet de program  
International Conference on Systems and Computer Science, Bucure ti, 2011 -- comitet de program  
*General Chair*, 15<sup>th</sup> International Conference on Systems Theory, Control and



Computing, Sinaia 2011; technically co-sponsored by IEEE Control Systems Society; indexed in IEEE Xplorer  
World Congress of International Federation of Automatic Control (Milano) 2011 – referent

## **V. Contribuții deosebite la creșterea vizibilității internaționale a cercetărilor științifice din domeniul tehnic în România**

- Elaborarea a două articole publicate / în curs de apariție în reviste cotate ISI – Web of Science.
- Organizarea celui de al X-lea Simpozion Internațional „Signals, Circuits and Systems” – indexat ISI Web of Knowledge și IEEE Xplorer.
- Organizarea celei de a XV-a Conferințe Internaționale „System Theory, Control and Computing” - indexat IEEE Xplorer.

### **Președinte,**

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

### **Secretar,**

prof. univ. dr. ing. Octavian Păstrăvanu