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Iaşi, 07 februarie 2016

RAPORT DE ACTIVITATE
pentru anul 2015

I. Activităţi specifice în cadrul filialei

I.A. Participarea cu lucrări din partea membrilor filialei în cadrul manifestărilor organizate de ASTR

1. **L. Goraş**, P. Ungureanu, On the dynamics of nonhomogeneous two-grid coupled cellular neural networks, *A X-a ediţie a Conferinţei „Zilele Academiei de Ştiinţe Tehnice din Romania"* (Proceedings), Galaţi, 9-10 Oct. 2015, pp 230-234.

2. **V.I. Popa**, A model for valorization of biomass as a source of energy and chemical products, *A X-a ediţie a Conferinţei „Zilele Academiei de Ştiinţe Tehnice din Romania"*, October, 9-10, 2015, Galati, Romania

I.B. Organizarea şi co-organizarea de manifestări ştiinţifice sub egida ASTR

1. A XII-a ediţie a Simpozionului Internaţional *Signals, Circuits and Systems*, ISSCS 2015, Iaşi, 9-10 iulie 2015 (**L. Goraş, D. Alexa, N.D. Alexandru**) – volum de lucrări indexat ISI Web of Science, IEEE Xplorer.

2. A XIX-a ediţie a Conferinţei Internaţionale *System Theory, Control and Computing*, ICSTCC 2015, Fundata, 14-16 octombrie 2015 (**M. Voicu, C. Lazăr, O. Păstrăvanu**) – volum de lucrări indexat IEEE Xplorer.

3. A 12-a ediţie a Şcolii de Vară Internaţionale EUROLAN-2015: *Linguistic Linked Open Data*, Sibiu, 13-25 iulie 2015 - http://eurolan.info.uaic.ro (**D. Cristea**)

4. Ediţia a 11-a a Conferinţei internaţionale ConsILR-2015 *Linguistic Resources and Technologies for Romanian Language*, 25-26 noiembrie 2015, Iaşi - http://consilr.info.uaic.ro/2015/ (**D. Cristea**)

II. Cercetare (publicaţii, proiecte)

II.A. Cărţi şi capitole în cărţi

1. Graur, A., **Alexandru N.D.,** Pohoaţă S., *Fundamentals of Analog Electronics,* Druk

Art Printing House, Chernivtsi, 2015, ISBN 978-6177172-47-4

2. **D. Cristea**, D. Gîfu, M. Colhon, P. Diac, A. D. Bibiri, C. Mărănduc, L. A. Scutelnicu, Quo Vadis: *A Corpus of Entities and Relations, Language Production, Cognition, and the Lexicon*, 39, Springer International Publishing, 2015.

3. **Lazar C.**, Burlacu A. (2015). A Control Predictive Framework for Image-Based Visual Servoing Applications, In Borangiu T. (ED.), *Advances in Robot Design and Intelligent Control*, Volume 371 of the series Advances in Intelligent Systems and Computing, pp 185-193, DOI: 10.1007/978-3-319-21290-6_19, Springer

II.B. Articole în reviste

1. **D.Alexa**, I.V.Pletea and T.Goras: Rectifier with near sinusoidal input current based efficient wind system, *IEEE Transactions on Power Electronics* - Manuscript ID TPEL - Reg. - 2015 - 10 - 1856 (in curs de aparitie). **(ISI)**

2. Alexandra Ligia Bălan, and **Nicolae Dumitru Alexandru**, Construction of New ISI-Free Pulses Using a Linear Combination of Two Polynomial Pulses, *Telecommunication Systems*, 2015 DOI: 10.1007/s11235-014-9907-2, August 2015, Volume 59, Issue 4, pp 469-476. **(ISI)**

3. M. Bohosievici, **L. Goraş**, A novel Active Inductor with High Voltage Controlled Quality Factor and Self-Resonant Frequency, *Buletinul Institutului Politehnic din Iaşi, Seria Electrotehnică, Energetică, Electronică* Tomul LIX (LXIII), Fasc. 1, 2015,

4. N. Patache, V-A. Maiorescu, **L. Goraş**, CMOS Implementation of Spatio-Temporal Filters with Cellular Neuronal Networks, *Buletinul Institutului Politehnic din Iaşi, Seria Electrotehnică, Energetică, Electronică* Tomul LIX (LXIII), Fasc. 1, 2015,

5. N. Patache, V-A. Maiorescu, **L. Goraş**, The Method and Circuit for Testing a Cellular Neural Network with 16 Cells, *Buletinul Institutului Politehnic din Iaşi, Seria Electrotehnică, Energetică, Electronică* Tomul LIX (LXIII), Fasc. 1, 2015,

6. Carpiuc, S. C., **Lazar C.** (2015). Fast real-time constrained predictive current control in permanent magnet synchronous machine based automotive traction drives, *IEEE Transactions on Transportation Electrification*, Vol. 1, No. 4, pp. 326-335. DOI: 10.1109/TTE.2015.2482223.

7. Carpiuc, S. C., **Lazar C.** (2015). Real-time constrained current control of permanent magnet synchronous machines for automotive applications, *IET Control Theory & Applications*, Vol. 9, No. 2, pp. 248-257, DOI: 10.1049/iet-cta.2014.0518 **(ISI)**.

8. **O. Pastravanu**, M.H. Matcovschi, Sufficient conditions for Schur and Hurwitz diagonal stability of complex interval matrices, *Linear Algebra and its Applications* (Elsevier), vol. 467, 2015, pp. 149-173, ISSN 0024-3795 **(ISI)**.

9. M. Apetrii, M.H. Matcovschi, **O. Pastravanu**, E. Rotenstein, Invariance for stochastic differential systems with time-dependent constraining sets. *Acta Mathematica Sinica-English Series* (Springer), vol. 31, nr. 7, 2015, pp. 1171-1188 **(ISI)**.

10. 1.Iulian Andrei Gilca, **Valentin I. Popa** and Claudia Crestini, Obtaining lignin nanoparticles by sonication, *Ultrasonics Sonochemistry*, 369–375(2015)**,** http://dx.doi.org/10.1016/j.ultsonch.2014.08.021/ **(ISI)**

11. R.E.Ghitescu, I. Volf, C. Carausu, A. M. Bühlmann, I. A. Gilca and **V. I. Popa**, Optimization of ultrasound-assisted extraction of polyphenols from spruce wood bark *Ultrasonics Sonochemistry* 22, 535–541 (2015)**,** http://dx.doi.org/10.1016/j.ultsonch. 2014.07.013 **(ISI)**

12. **V.I.Popa**, Obtaining of nanocellulose (I),*Celuloză şi Hârtie*, 64 (*1*), 3-10 (2015)

13. Adina Iulia Talmaciu, Irina Volf, Valentin I. Popa, Supercritical fluids and ultrasound assisted extractions applied to spruce bark conversion, *Environmental Engineering and Management Journal*, 14 (*3*) 615-623 (2015) **(ISI)**

14. O. C. Bujor, I. A. Talmaciu, I. Volf, and **V. I. Popa**, Biorefining to recover aromatic compounds with biological properties, *Tappi J.*,14 (*3*) 187-193 (2015) **(ISI)**

15. T. Todorciuc, L. Bulgariu and **V. I. Popa**, Adsorption of Cu(II) from aqueous solution on wheat straw lignin: Equilibrium and kinetic studies, *Cellulose Chem. Technol.*, 49 *(5-6)* , 439-447(2015) **(ISI)**

16. A.Talmaciu, C.Tanase., I.Volf and **V.I.Popa**, Influence of polyphenolic compounds on *Ocimum basilicum* L. development, *Analele Stiintifice ale Universitatii "Alexandru Ioan Cuza"., Sectiunea genegtica si Biologie Moleculara*. Tom XVI, Fascicula 2, 83-88 (2015)

17. Roxana-Elena Ghitescu, Ana-Maria Popa, **Valentin I. Popa**, Rene M. Rossi, Giuseppino Fortunato, Encapsulation of polyphenols into pHEMA e-spun fibers and determination of their antioxidant activities, *International Journal of Pharmaceutics*, 494, 278–287(2015) **(ISI)**

18. **V.I.Popa**, Obtaining of nanocellulose (II), *Celuloză şi Hârtie,* 64 (*2*), 11-29 (2015)

19. **V.I.Popa**, Democratia si excelenta universitară (Democracy and excellence of university), *Revista de Politica Stiintei si Scientometrie, Serie nouă*, 4 (*3*) , 211-213 (2015)

20. Adina Iulia Talmaciu, Irina Volf and **Valentin I. Popa**, A Comparative Analysis of the 'Green' Techniques Applied for Polyphenols Extraction from Bioresources, *Chemistry & Biodiversity*, 12 *(11)*, 1635–1651 (2015)**,** DOI: 10.1002/cbdv.201400415 **(ISI)**

21. A. M. Ariton, T. Creanga, L. C. Trinca, S. I. Bors, E. Ungureanu, T. Malutan and **V. I. Popa**, Valorization of lignin modified by hydroxymethylation to ensure birch veneer bioprotection, *Cellulose Chem. Technol.*, 49 *(9-10),* 765-774 (2015) **(ISI)**

22. C.Tanase, C. I. Bara and **V. I. Popa**, Cytogenetical effect of some polyphenol compounds separated from industrial by-products on maize (*Zea mays* L.) plants, *Cellulose Chem. Technol.*, 49 *(9-10),* 799-805 (2015) **(ISI)**

23. **Adrian Radu**, Maricica Vasilache, Irina Baran - Improved Performance levels for new and refurnished buildings – Bul.I.P.I., Tom IX, Sectia Constructii şi Arhitectură, pp 31-37

24. **Taranu N.**, Cozmanciuc R., Entuc I., Budescu M., Munteanu V., Isopescu.D, The behaviour of the interface between carbon fibre reinforced polymer composite plates and concrete. *Romanian Journal of Materials* 45 (3), 232-240 (2015)- **(ISI)**

25. Maxineasa S.G., **Taranu N.***,* Bejan L., Isopescu D., Banu O.M., Environmental impact of carbon fibre-reinforced polymer flexural strengthening solutions of reinforced concrete beams. *International Journal of Life Cycle assessment* (Building components and buildings), Vol. 20(10), 1343-1358 (2015)- **(ISI)**

26. Toma I.O., **Taranu N.**, Banu O.M., Budescu M., Mihai P., Taran R.G., The effect of the aggregate replacement by waste tyre rubber crumbs on the mechanical properties of concrete. *Romanian Journal of Materials* 45 (4), 394-401 (2015)- **(ISI)**

27. Budescu M., Mihai P., ***Taranu N.**,* Lungu I., Banu O.M., Toma I.O., Establishing the complete characteristic curve of concrete loaded in compression. *Romanian Journal of Materials* 45 (1), 43-54 (2015)- **(ISI)**

28. Axinte A., **Taranu N.**, Bejan L., Rosca V., Approaches in modelling the mechanical characteristics of polymeric composites reinforced with woven fabrics. *Bulletin of the Polytechnic Institute of Jassy, Construction and Architecture Section*, Tomul LIX (LXIII), Fasc. 1, 57-67, (2015)

29. Secu Al., Florenta I., **Taranu N.**, Lupasteanu Vl., Particularities of Platform Wooden Framing Structures, *Bulletin of the Polytechnic Institute of Jassy, Construction and Architecture Section*, Tomul LIX (LXIII), Fasc. 1, 87-92, (2015)

30. Rosca V.E., **Taranu N.**, Bejan L., Axinte A.O., Element Free Galerkin Formulation for Problems in Composite Micromechanics. *Applied Mechanics and Materials*, Vols. 809-810, 896-901, (2015)

31. Axinte A., **Taranu N.**, Bejan L., Rosca V. Particularities of Modelling the Mechanical Properties of Woven Composite Fabrics. *Applied Mechanics and Materials*, Vols. 809-810, 560-565, (2015)

II.C. Articole în volume de conferinţe

1. **D.Alexa**, I.V.Pletea, A.Lazar and T.C.Goras: Static Frequency Converter with PWM Self –Control Inverter for an Induction Motor, *ISSCS 2015*, Power Electronics II, Iasi, 9-10 July 2015.

2. A.Sirbu, **D.Alexa** and T.C.Goras: Rectifier with Near Sinusoidal Input Currents – MATLAB/SIMULINK Model Case Studies, *ISSCS 2015*, Power Electronics II, Iasi, 9-10 July 2015.

3. **N.D. Alexandru**, Felix Diaconu, Thorough Spectral Investigation of the β-α Pulse Shaping Filter, *Proc. ISSCS 2015*, Iaşi, on CD

4. Adrian Popa, **N.D. Alexandru**, Waveform and CMOS Generator for a Pulse Designated for UWB European Band 6-8.5 GHz, *Proc. ISSCS 2015*, Iaşi, on CD

5. M. Zock, **D. Cristea**, You shall find the target via its companion words: specifications of a navigational tool to help authors to overcome the tip-of-the-tongue problem, *Natural Language Processing and Cognitive Science*, Proceedings 2014, (eds) Bernadette Sharp, Rodolfo Delmonte, de Gruyter, 2015

6. D. Tufiş, V. Barbu Mititelu, E. Irimia, S. D. Dumitrescu, T. Boroş, H. N. Teodorescu, **D. Cristea**, A. Scutelnicu, C. Bolea, A. Moruz, L. Pistol, CoRoLa Starts Blooming – An Update on the Reference Corpus of Contemporary Romanian Language, In *Proceedings of the 3rd Workshop on Challenges in the Management of Large Corpora* (CMLC-3), Lancaster United Kingdom, Iulie 2015.

7. Monica Fira, **Liviu Goraş**, A New Method for ECG Compression Evaluation, Proceedings *ISSCS 2015* (CDROM), 9-10 July, Iasi, Romania.

8. **Liviu Goraş**, Nicolae Patache, Paul Ungureanu, Results on the Spatio-Temporal Dynamics of a First Order Cell CNN, *International Symposium on Signals, Circuits and Systems*, 9 - 10 July, 2015, Iasi, Romania, CD-ROM Proceedings.

9. R-D. Amăriuţei, V-D Andrieş, **L. Goraş**, M. Rafailă, A. Buzo, G. Pelz, On the Transient Analysis of a DC-DC Buck Converter under Load Steps Scenarios, *International Symposium on Signals, Circuits and Systems*, *ISSCS 2015*, Iaşi, 9-10 Iulie, 2015,

10. R-D. Amăriuţei, **L. Goraş**, M. Dobler, M. Rafailă, A. Buzo, G. Pelz, On the Stability Domain of a DC-DC Buck Converter with Software Control Loop, *19th International Conference on System Theory, Control and Computing, ICSTCC 2015*, Cheile Gradistei, oct. 14 - 16, 2015, pp 811-816,

11. R-D. Amăriuţei, **L. Goraş**, M. Rafailă, A. Buzo, G. Pelz, On Limit Cycles Suppression in DC-DC Buck Converters, *International Semiconductor Conference, CAS,* Sinaia, oct. 12-14, 2015, pp 293-296.

12. S. Savinescu, **L. Goras**, Differential CMOS Current Controlled Current Scalor, *International Symposium on Signals, Circuits and Systems, ISSCS 2015*, Iaşi, 9-10 Iulie, 2015,

13. N. Patache, **L. Goras**, On the Dynamics of a 1D Cellular Neural Network, *International Semiconductor Conference, CAS*, Sinaia 12-14 oct. 2015, pp 189-192.

14. Carpiuc, S. C., **Lazar C.** (2015). Multi-Rate Predictive Cascade Speed Control of Synchronous Machines in Automotive Electrical Traction Drives, *Proc. of 23rd*

Mediterranean Conference on Control and Automation (MED), Torremolinos, Spain, pp. 383-389, DOI: 10.1109/MED.2015.7158775.

15. Carpiuc, S. C., **Lazar C.** (2015). Multi-Rate Predictive Cascade DC{Link Voltage Control in Hybrid Electric Vehicles, *Proc. of the 19th International Conference on System Theory, Control and Computing (ICSTCC)*, Cheile Gradistei-Fundata, Romania, pp. 478- 483, DOI: 10.1109/ICSTCC.2015.7321339.

16. Alionte E., **Lazar C.** (2015). A practical implementation of face detection by using Matlab cascade object detector, *Proc. of the 19th International Conference on System Theory, Control and Computing (ICSTCC)*, Cheile Gradistei-Fundata, Romania, pp. 785-790, DOI: 10.1109/ICSTCC.2015.7321390

17. Tiganasu A., **Lazar C.** (2015). LabVIEW traction control dynamic simulator, *Proc. of the 19th International Conference on System Theory, Control and Computing (ICSTCC)*, Cheile Gradistei-Fundata, Romania, pp. 791-796, DOI: 10.1109/ICSTCC.2015.7321391

18. Maxim A., **Lazar C.**, Caruntu C.F. (2015). A Computationally Efficient Non-cooperative Distributed Model Predictive Control Algorithm for Two Agent Systems, *20th International Conference on Control Systems and Computer Science (CSCS)*, Bucharest, Romania, pp. 673-678, DOI: 10.1109/CSCS.2015.60

19. **O. Pastravanu**, M.H. Matcovschi,and **M. Voicu**, Interval systems − Construction and exploitation of diagonal Lyapunov functions, *19th Int. Conf. on Systems Theory, Control and Computing ICSTCC 2015*, Fundata, Romania, Oct. 2015.

20. Corneliu Tanase, **Valentin I. Popa**, Wastes from forestry and energy industry as potential bioregulators in soybean (Glycine max L.) plants, *The 14th International Symposium "Prospects for the 3rd Millennium Agriculture"*, September, 24-26, 2015, Cluj-Napoca, Romania, ISSN: 2392 6937.

21. Corneliu Tanase, **Valentin I. Popa**, Potential bioregulators for rape (Brassica napus L.) plants, *The14th International Symposium "Prospects for the 3rd Millennium Agriculture"*, September,24-26, 2015, Cluj-Napoca, Romania, ISSN: 2392 6937.

22. Corneliu Tanase, Irina Boz, **Valentin I. Popa**, Bioanalysis used in assessment of some biorefining products action on maize plants, *The 15th International Symposium and Summer School on Bioanalysis*, July, 13-18, 2015, Targu Mures, Romania, ISSN 2068-3324

23. **Taranu N.**, Maxineasa S.G., Entuc I.S., Oprisan G., Secu A., Assessing the environmental impact of a glass fibre reinforced polymer strengthening solution for timber beams, *Proceedings of the 15th Multidisciplinary Scientific Geoconference (SGEM 2015)*, 17-26 June 2015, Albena, 65-72 (SCOPUS)

24. Baetu S.A., Venghiac V.M, Budescu M, **Taranu N.**, Numerical simulation of concrete with rubber aggregates, *Proceedings of the 15th Multidisciplinary Scientific Geoconference (SGEM 2015)*, 17-26 June 2015, Albena, 345-352 (SCOPUS)

25. Andrei R., Lucaci Gh., **Taranu N.**, Nicuta A.M., Condurat M., Dumitrescu L., Maxineasa S.G., Assessment of the environmental indicators of various supply chains and technologies developed for the construction of new and recycled road pavements in Romania. *Proceedings of the 25th World Road Congress*, SEOUL, 2-5 November 2015, 12pp

26. Maxineasa S.G., **Taranu N.**, Lupasteanu V., Dupir I., Environmental impacts of fibre reinforced polymers constituent materials. *Proceedings of the 15th International Scientific Conference VSU'2015*, 3-4 June 2015, Sofia, Vol I., pp 367-372

27. Dupir I., **Taranu N.**, Vladoiu C., Maxineasa S.G., Lupasteanu V., Engineering constants of laminated composites. *Proceedings of the 15th International Scientific Conference VSU'2015*, 3-4 June 2015, Sofia, Vol I., pp 337-342

28. Axinte A., **Taranu N.**, Bejan L., Rosca V., Approaches on meso-mechanics of textile composites. *Proceedings of the 15th International Scientific Conference VSU'2015*, 3-4 June 2015, Sofia, Vol I., pp 353-358

29. Lupasteanu V., **Taranu N.**, Maxineasa S.G., Dupir I., Analytical evaluation of bond characteristics between FRP composites and steel surfaces *Proceedings of the 15th International Scientific Conference VSU'2015*, 3-4 June 2015, Sofia, Vol I., pp 359-365

II.D. Coordonări / Participări în proiecte de cercetare-dezvoltare

Alexa D.
- Director al proiectului de cercetare CNCS - IDEI *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,

Atanasiu G.M.
- Director al proiectului de cercetare *Road Networks for Earthquake Resilient Societies - Roaders Project*, 2013-2015, Parteneriate, 3003/2013, ERA Net FP7–Concert Japan&TU Iași.

Cristea D.
- Coordonatorul grupului de limbaj natural de la Institutul de Informatică Teoretică – Filiala Iași a Academiei Române în proiectul prioritar al Academiei Române COROLA - *Corpus computațional reprezentativ al limbii române contemporane*.
- Coordonator al proiectului MappingBooks - Let's jump in the book! (2014- 2016) – finanțat de UEFISCDI prin Programul Parteneriate (PN II, competiția PCCA 2013), codul: PN-II-PT-PCCA-2013-4-1878.
- Membru în Comitetul de Management al acțiunii EC COST ENeL - *European Network of e-Lexicography* (2013-2017) – site-ul oficial: http://www.elexicography.eu/.
- Membru al acțiunii EC COST E-READ: *Evolution of Reading in the Age of Digitization* (2014 - 2018) – site-ul oficial: http://www.academia.edu/7664953/COST_IS1404_E-READ_Evolution_of_REading_in_the_Age_of_Digitisation.
- Membru al acțiunii EC COST PARSEME: *PARSing Multi-word Expressions* (2013-2017) - site-ul oficial: http://typo.uni- konstanz.de/parseme/.

Lazăr C.
- 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 – 2016), director prof. dr. ing. O. Păstrăvanu.

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 – 2016)

Siminiceanu I.
- Cresterea eficientei exergetice si reducerea emisiilor de dioxid de carbon la SC CHIMCOMPLEX Borzesti, instalatia de electroliza cu membrane schimbatoare de

ioni, prin COGENERARE.

Ţăranu N.

- Responsabil UTI la proiectul internaţional în desfăşurare *EU COST TU1207 –New Generation Guidelines for FRP Composites in Construction* (2013-2017)
- Responsabil UTI la proiectul internaţional în desfăşurare *EU FP7-ENV-603722 "Innovative reuse of all tyre components in concrete" ANAGENNISI* (2014-2017)
- Director la proiectul cîştigat prin competiţie naţională *PN II- CAPACITĂŢI -264 EU* (cofinanţare la proiectul ANAGENNISI) (2014-2017)

III. Prezentări invitate / Comunicări

1. D. Bibiri, C. Bolea, L. A. Scutelnicu, A. Moruz, L. Pistol, **D. Cristea**, "*Metadata of a Huge Corpus of Contemporary Romanian. Data and Organization of the Work*", articol prezentat la Conferinţa "7-th Balkan Conference in Informatics", BCI 2015, Craiova, Romania, Septembrie, 2015.

2. M. Colhon, **D. Cristea**, D. Gîfu*," Discovering Semantic Relations within Nominals*" at the Workshop on Social Media and the Web of Linked Data, RUMOUR-2015, A satellite event of EUROLAN-2015, Sibiu, Romania, July 2015 - under SPRINGER publication.

3. D. Anechitei, **D. Cristea**, D. Gîfu, M. Niculiţă, I. Pistol, D. Sfirnaciuc. "*A Mixed Approach in Recognising Geographical Entities in Texts*", at the Workshop on Social Media and the Web of Linked Data, RUMOUR-2015, A satellite event of EUROLAN-2015, Sibiu, Romania, July 2015 - under SPRINGER publication.

4. Scutelnicu, **D. Cristea**, "*On interconnection of lexicographic resources*", "The Summer School on Linguistic Linked Open Data", EUROLAN-2015, Sibiu, Romania, Iulie 2015.

5. **D. Cristea**, A. Scutelnicu, "*Towards interoperability of discourse annotation. Use cases of corpora*", "The Summer School on Linguistic Linked Open Data", EUROLAN-2015, Sibiu, Romania, Iulie 2015.

6. **D. Cristea**, "Discovering semantic links in texts. Corpora and projects", *Modeling and Developing of Intelligent Systems – 4th International Conference MDIS-2015*, conferinţă invitată, Sibiu, Romania, Octombrie 2015.

7. Bibiri, **D. Cristea**, A. Moruz, M. Onofrei, L. Pistol, A. Scutelnicu, „*Stadiul dezvoltării Corpusului computaţional reprezentativ al limbii române contemporane. Resurse şi tehnologii"*, Simpozionul „Sisteme Inteligente şi Aplicaţii"- SIA 2015, Iaşi, România, Octombrie, 2015

8. **D. Cristea**, A. Iftene, C. Forăscu, D. Trandabăţ, I. Pistol, D. Gîfu, A. Scutelnicu, C. Mărănduc, P. Diac, "*Proiectele MappingBooks, COROLA şi QuoVadis. Servicii Web lingvistice*", Sesiunea academică de toamnă a Facultăţii de Informatică, Iaşi, Octombrie 2015

9. **D. Cristea**, *Conservarea digitală a patrimoniului umanităţii şi rolul cărţii online*, Zilele Bibliotecii Centrale Universitare „Mihai Eminescu", Biblioteca şi noile paradigme, Iaşi, Romania, 8-10 noiembrie 2015.

10. Liviu-Andrei Scutelnicu, Anca-Diana Bibiri, **Dan Cristea**. *An Approach For Interconnecting Lexical Resources*, în conferinţa *Linguistic Resources and Technologies for Romanian Language*, ConsILR-2015, Iaşi, Romania, 26-27 noiembrie 2015.

11. Daniela Gîfu, Ionuţ Pistol, **Dan Cristea**, *Annotation Conventions For Geographical Relations*, în conferinţa *Linguistic Resources and Technologies for Romanian Language*, ConsILR-2015, Iaşi, Romania, 26-27 noiembrie 2015.

12. M. Colhon, D. Gîfu, **D. Cristea**, *The QuoVadis Storytelling*, în conferinţa *Linguistic*

Resources and Technologies for Romanian Language, ConsILR-2015, Iaşi, Romania, 26-27 noiembrie 2015.

13. **O. Păstrăvanu**, M.Matcovschi, **M. Voicu**, Functii Lyapunov diagonale pentru reprezentari sistemice de tip interval, *Sesiunea de comunicări ştiinţifice* a Institutului de Matematică Octav Mayer împreuna cu Comisia de Automatică Teoretică şi Teoria Controlului, *Zilele Academice Ieşene*, 10 octombrie 2015.

14. O.C.Bujor, I.Volf, **V.I.Popa** and C.Dufour, Inhibition of lipid oxidation by bilberry and lingonberry phenolic extracts in an *in vitro* digestion model, *4th International Conference of Food Digestion*, COST Action FA 1005, INFOGEST, March, 17-19, 2015, Naples, Italy

15. Adina Iulia Talmaciu, CorneliuTanase, Csilla Iuliana Bara, IrinaVolf and **Valentin I. Popa**, New Aspects in Biomass Wastes Valorization: Spruce Bark as Plants Growth Regulators, Paper presented at *8th International Conference on Environment Engineering and Management*, September, 9-12, 2015, Iasi., Romania

16. **V.I.Popa**, Wood bark as valuable raw material for compounds with biological activity, Plenary lecture, *The 8th International Symposium Advanced Technologies for the Pulp, Paper and Corrugated Board Industry*, September, 15-18, 2015, Braila, Romania

17. **I. Siminiceanu**, Modeling and Design of the Fixed Bed Ion Exchange Reactor for Nitrate Removal from Water", *Conferinţa Internaţională* OPROTEH/CISA, Bacau, June 4- 6, 2015.

18. **I. Siminiceanu**, Contributia lui Petru Poni la formarea spiritului stiintific, *Sesiune comemorativă Petru Poni*, Muzeul Poni – Cernatescu, 2 aprilie 2015.

IV. Activităţi editoriale – Membri în colective de redacţie, comitete de program, referenţi, recenzenţi

Alexandru, N. D.
- Membru în Colectivul editorial al revistei *Advances in Electrical and Computer Engineering*
- Referent solicitat de revistele *IEEE Communication Letters, ETRI Journal*
- Recenzent solicitat de organizatorii manifestărilor ştiinţifice TSP 2015, 9-11 iulie 2015, Prague, Czech Republic, BlackSeaCom), Constanţa, Romania, 18-21 mai, 2015, ECAI 2015, ISSCS2015, Iaşi

Atanasiu G.M.
- Membru în Colectivul editorial al revistei *Management&Marketing*.
- Evaluator solicitat în programul *ITN Marie Curie*, Comisia Europeană, 2015.

Dima A.
- Editor şef al revistei *Metalurgia* (ISSN 0461-9579).
- Editor şef al revistei *Metalurgia International* (ISSN 1582-2214)

Cristea D.
- Membru în Comitetul de Program: The 5th International Students Conference on Informatics, Imagination, Creativity, Design, Development, ICDD 2015, 21-23 mai 2015, Sibiu, Romania
- Membru în Comitetul de Program: The 12th EUROLAN Summer School, „Linguistic Linked Open Data", 13 - 25 July 2015, Sibiu, Romania
- Membru în Comitetul de Program: "7-th Balkan Conference in Informatics", BCI 2015, Workshop on Ontologies and Knowledge Bases - Wokb 2015, 2-4 Septembrie 2015, Craiova, Romania,
- Membru în Comitetul de Organizare: Second edition of "Errare" workshop, Errare 2015, 11-13 septembrie 2015, Sinaia, Romania

- Membru în Comitetul de Program: Recent Advances in Natural Language Processing, RANLP 2015, 5-11 September, Hissar, Bulgaria
- Membru în Comitetul de Program: The 8th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2015), September 24-26, 2015 Warsaw, Poland
- Membru în Comitetul de Program: The 8th International Conference on Speech Technology and Human-Computer Dialogue, October 14-17, 2015 - Bucuresti, Romania
- Membru în Comitetul de Program: The 4th International Conference Modelling and Development of Intelligence Systems, MDIS 2015, 28 octtombrie - 1 noiembrie 2015, Sibiu, Romania
- Membru în Comitetul de Program: *ConsILR* - Conferinţa Consorţiului de Informatizare pentru Limba Română *Linguistic Resources and Technologies for Romanian Language*, 18-19 noiembrie 2015, Craiova, Romania
- Membru în Comitetul de Program: The 16th International Conference on Intelligent Text Processing and Computational Linguistics – Cicling-2015, Cairo, Egipt
- Membru în Comitetul de Editorial: Journal of Linguistic Modelling
- Membru în Comitetul de Program: North American Association for Computational Linguistics – NAACL-2015, 31 May – 5 June 2015, Denver, Colorado, USA
- Membru în Comitetul de Program: Natural Language Processing and Cognitive Science – NLPCS-2015, 22-24 September 2015, Krakow, Poland

Goraş L.
- Membru în Colectivul editorial al revistei *International Journal of Neural Networks and Applications*
- Membru în Colectivul editorial al revistei *Acta Technica Napocensis (Electronics and Telecommunications)*
- Organizator principal al celei de a A XII-a ediţie a Simpozionului Internaţional *Signals, Circuits and Systems*, ISSCS 2015, Iaşi, 9-10 iulie 2015
- Referent solicitat de revistele *IEEE Trans Circuits and Systems, IEEE Trans Biomedical Engineering, IEEE Journal of Solid State Circuits, Proceedings of the Romanian Academy, Series A*
- Recenzent solicitat de revista *Zentralblatt für Mathematik*

Lazăr C.
- Membru în Colectivul editorial al revistei *The Annals of "Dunarea de Jos" University of Galati, Fascicle III: Electrotechnics, Electronics, Automatic Control, Informatics*
- Membru în Colectivul editorial al revistei *Buletinul Institutului Politehnic din Iaşi, Automatic Control and Computer Science Section*
- Vice Chair of *The 24th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2015*, Bucharest, Romania, May 27-29, 2015
- Membru în Comitetul de program al Conferinţei *19th International Conference on System Theory, Control and Computing*, October 14-16, 2015, Fundata
- Referent solicitat de revista *Control Engineering and Applied Informatics*
- Referent solicitat de organizatorii conferinţelor *European Control Conference ECC 2015, International Symposium on Advanced Control of Chemical Processes ADCHEM 2015, 24th International Conference on Robotics in Alpe-Adria-Danube Region, 20th International Conference on Control Systems and Computer Science CSCS 2015şi 19th International Conference on System Theory, Control and Computing – ICSTCC 2015*

Păstrăvanu O.
- Membru în Colectivul editorial al revistei *Buletinul Institutului Politehnic din Iaşi, Automatic Control and Computer Science Section*

- Membru în Colectivul editorial al revistei *Revista Română de Informatică şi Automatică*
- Membru în Comitetul de program al Conferinţei *18th International Conference on System Theory, Control and Computing*, October 14-16, 2015, Fundata
- Membru în Comitetul de program al Track 4: "Automated Manufacturing Systems" at the *20th IEEE International Conference on Emerging Technologies and Factory Automation* (ETFA'2015), Luxembourg.
- Referent solicitat de revistele *IEEE Trans. ASE; CSS Magazine; IMA Journal; Journ. Appl. Math.; Control Engineering and Applied Informatics.*
- Referent solicitat de organizatorii conferinţelor *20th International Conference on Control Systems and Computer Science CSCS 2015, European Control Conf. ECC 2015,*
- Recenzent solicitat de revistele *Zentralblatt für Mathematik, Mathematical Reviews*

Popa V. I.
- Editor şef al revistei *Cellulose Chemistry and Technology*
- Referent solicitat de revistele *Environmental Engineering and Management Journal, Chemical Papers, Journal of Composites* Part B, *Arabian Journal of Chemistry, BioResources, Journal of Photochemistry and Photobiology A: Chemistry, International Journal of Polymer Science, Bioresource Technology, Journal of Natural Fibres*

Siminiceanu I.
- Membru în Colectivul editorial al revistei *Revista de Chimie*
- Membru în Colectivul editorial al revistei *Buletinul Societatii de Chimie din Romania*
- Membru în Colectivul editorial al revistei *Buletinul Societatii de Inginerie Chimica din Romania*

Ţăranu N.
- Editor şef la revista *Buletinul Institutului Politehnic Iasi, Secţia Construcţii şi Arhitectură*
- Membru în Comitetul de program al *The 15th International Scientific Conference VSU'2015*, 3-4 June 2015, Sofia;
- Membru în Comitetul de program al *Conferinţei Naţionale "Ingineria Clădirilor"* (ediţia a II-a), 16 octombrie 2015, Bucureşti;
- Membru în Comitetul de program al *International Scientific Conference CIBv*, Brasov, 30-31 October 2015.

Voicu M.
- Membru în Colectivul editorial al revistei *Proceedings of the Romanian Academy Series A: Mathematics, Physics, Technical Sciences, Information Science*
- Membru în Colectivul editorial al revistei *Control Engineering and Applied Informatics* (*CEAI*)
- Membru în Colectivul editorial al revistei *Romanian Journal of Information Science and Technology (ROMJIST)*
- Editor onorific al revistei *Buletinul Institutului Politehnic Iaşi*
- Membru în Colectivul editorial al revistei *Revista Română de Informatică şi Automatică*
- Membru în Colectivul editorial al revistei *Transactions on Automatic Control and Computer Science, Univ. „Politehnica" din Timişoara*
- General Vice-Chair, *19th International Conference on Systems Theory, Control and Computing*, Fundata 2015
- Referent solicitat de organizatorii conferinţei *1st IFAC Conference on Modelling,*

Identification and Control of Nonlinear Systems (MICNON), Saint Petersburg
- Recenzent solicitat de revistele *Zentralblatt für Mathematik, Mathematical Reviews*

V. Contribuţii deosebite la creşterea vizibilităţii internaţionale a cercetării ştiinţifice din domeniul tehnic în România

Elaborarea a 18 articole publicate / în curs de apariţie în reviste cotate ISI – Web of Science.

Co-organizarea celei de a A XII-a ediţie a Simpozionului Internaţional *Signals, Circuits and Systems*, ISSCS 2015, Iaşi, 9-10 iulie 2015 - indexată ISI Web of Science, IEEE Xplorer.

Co-organizarea celei de a XIX-a ediţie a Conferinţei Internaţionale *System Theory, Control and Computing*, ICSTCC 2015, Fundata, 14-16 octombrie 2015 - indexată IEEE Xplorer.

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

Secretar,
prof. univ. dr. ing. Octavian Păstrăvanu