

## RAPORT

### privind activitatea de cercetare din anul 2014

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#### **A- Publicatii**

##### *1. Carti:*

1.1. *I. Dumitrache* –“Automatica – Aplicatii” – sub tipar

Editura Academiei.

##### *2. Articole in reviste indexate Thomson – ISI*

2.1. S. Avram, V.Velter, I. Dumitrache “Semantic Analysis Application in Computational Bibliometrics” in Control Engineering and Applied Informatics, vol.16.nr 1,2014, pag 62-70 ([www.ceai.srait.ro](http://www.ceai.srait.ro))

2.2. O. Arsene, Ioan Dumitrache, Ioana Mihu “Expert System for medicine diagnosis using software agents”, in Expert Systems and Applications, 42 (2014), pag 1825-1834.

(<http://www.elsevier.com/locate/esma>)

##### **3. Lucrari publicate in volumele unor conferinte indexate**

3.1. Ioan Dumitrache, S. Caramihai “Intelligent Cyber-Enterprise in Context of Production”, 19<sup>th</sup> IFAC World Congress

- 3.2. I Necoara, I. Dumitrache “Iteration Complexity of inexact augmentedLagrangian method, 19<sup>th</sup> IFAC World Congres

IFAC-Papers Online pag. 2927-2932

- 3.3. Ioan Dumitrache, S. Caramihai “Some Challenges of Big Data on CPS modeling”, 3<sup>th</sup> International Workshop on Cyber-Physical Systems IWOCS-3, pag.7-18

- 3.4. S Caramihai, Ioan Dumitrache, “CPS-Driver for next Industrial revolution-Industrie 4.0-The Proceedings of IWOCS-3, pag 27-37

#### **4. Lucrari invitate la Conferinte Internationale (Keynot)**

4.1. *I.Dumitrache*- “Cyber Physical Systems –new challenges for Science, Technology and Education” 20<sup>th</sup> European Concurrent Engineering Conference – ECEC – 2014, BRUGES...

4.2. *I.Dumitrache* -“From Computer Controlled Process to Intelligent Cybers-Physical-Systems” – International Computers, Communications, Control Conference –(ICCCC-6), 2014 <http://univapora.ro/ro/iccc> 2014/Keynote)

4.3. *I.Dumitrache*- Hybrid Intelligent Techniques in Autonomous Complex Systems” 6<sup>th</sup> International workshop on Soft Computing Applications SORA 2014.

4.4. *I.Dumitrache* – “Intelligent Cyber-Energy-Systems” (ICTSCC-18<sup>th</sup> International Conference on System Theory, Control and

## **5. Organizare de conferinte si sesiuni stiintifice**

- 5.1. International workshop on Cyber-Physical-Systems – IWOCS – 3; Presedinte IPC – Bucuresti 2014  
[www.IWOCS-3](http://www.IWOCS-3).
- 5.2. Conferinta Nationala – Educatia in Inginerie.
- 5.3. Sesiune invitata: “Model Predictiv Control for Embedded Systems” – 19<sup>th</sup> IFAC World Congres.
- 5.4. Sesiune invitata: Intelligent Cyber-Physical-Entreprise” – 19<sup>th</sup> IFAC World Congres.
- 5.5. Organizator Masa Rotunda: “CPS driver for next industrial revolution”.

## **6. Participare la comitete redactionale ale revistelor stiintifice.**

- 6.1. Control Engineering and Applied Informatics  
Fondator si Editor sef – 1999, IF =0.374
- 6.2. Studies in Informatics and Control – SIC – (<http://sic.ici.ro>)
- 6.3. ROMJIST (Romanian Journal of Information Science and Technology) a Academiei Romane  
<http://www.imt.ro/romjist>).
- 6.4. Scientific Bulletin – Series C – Electrical Engineering and Computer Science – ISSN – 1424-234x
- 6.5. Revue Romain des science techniques- serie Electrotechnique et Energetique.
- 6.6. Proceedings of the Romanian Academy, seria A (impact

Factor / 2010 =0.7 <http://www.acad.>