

LISTA DE LUCRĂRI

Lista celor 10 lucrări relevante pentru realizările profesionale (format electronic în dosar):

1. **Petre Angheliescu**, Silviu Ionita, Emil Sofron, "Encryption Technique with Programmable Cellular Automata (ETPCA)", Publisher: OLD CITY PUBLISHING INC, **Journal of Cellular Automata**, Volume: 5, Issue: 1-2, ISSN: 1557-5969, pag. 79-105, January 2010, **ISI Impact Factor: 0.696** (<http://www.oldcitypublishing.com/JCA/JCAcontents/JCAv5n1-2contents.html>).
2. **Petre Angheliescu**, Silviu Ionita, Vasile-Gabriel Iana, "High-Speed PCA Encryption Algorithm using reconfigurable computing", **Journal Cybernetics and Systems** (Taylor & Francis), ISSN: 0196-9722, Volume 44, Issue 4, 2013, **ISI Impact Factor: 1.434** (<http://www.tandfonline.com/loi/ucbs20>).
3. **Petre Angheliescu**, "FPGA implementation of programmable cellular automata encryption algorithm for network communications", **International Journal of Computer Systems Science and Engineering (CSSE)**, volume 31, number 5, ISSN: 0267-6192, september 2016, **ISI Impact factor: 0.348** (<http://www.crlpublishing.co.uk/journal.asp?j=csse&s=Vol%2031%202016>).
4. **Petre Angheliescu**, "Hardware Implementation of Programmable Cellular Automata Encryption Algorithm", 35th International Conference on Telecommunications and Signal Processing, TSP 2012, Praga, Cehia, ISBN: 978-1-4673-1116-8, IEEE Catalog Number: CFP1288P-CDR, pag. 18 – 21, 3-4 July 2012 (<http://tsp.vutbr.cz>).
5. **Petre Angheliescu**, Silviu Ionita, Emil Sofron, „FPGA Implementation of Hybrid Additive Programmable Cellular Automata Encryption Algorithm”, The 8th International Conference on Hybrid Intelligent Systems, HIS 2008, IEEE Computer Society Press, ISBN 978-0-7695-3326-1, Digital Object Identifier: 10.1109/HIS.2008.24, INSPEC Accession Number: 10234541, Barcelona – Spania, 10-12 septembrie 2008, pp. 96-101, 2008.
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7. **Petre Angheliescu**, Emil Sofron, Cristian-Iulian Râncu, Vasile-Gabriel Iana – „Programmable Cellular Automata Based Encryption Algorithm”, The 31th International Semiconductor Conference, CAS 2008, Sinaia, Romania, 13-15 octombrie 2008, IEEE Catalog Number: CFP08CAS-PRT, ISBN 978-1-4244-2004-9, ISSN: 1545-827X, pag. 351-354, 2008.
8. **Petre Angheliescu**, Silviu Ionita, Ionel Bostan, "Design of Programmable Cellular Automata Based Cipher Scheme", World Congress on Nature and Biologically Inspired Computing, NaBIC 2009, Coimbatore, India, IEEE Catalog Number: CFP0995H-CDR, ISBN: 978-1-4244-5612-3, Library of Congress: 2009907135, Digital Object Identifier 10.1109/NABIC.2009.5393680, pag. 187-192, 9-11 December 2009.
9. **Petre Angheliescu**, "Security of Telemedical Applications over the Internet using Programmable Cellular Automata", International Journal of Intelligent Computing Research, IJICR, Volume 3, Issue 1/2, ISSN: 2042-4655, pag. 245-251, 2012, <http://www.infonomics-society.org/IJICR/>.
10. **Petre Angheliescu**, Silviu Ionita, Vasile-Gabriel Iana, "FPGA Implementation of Cellular Automata Based Encryption Algorithm for Internet Communications", The 6th International Conference on Internet Technology and Secured Transactions, ICITST 2011, ISBN: 978-1-908320-00-1, pag. 208-213, UAE, Abu Dhabi, 11 – 14 December 2011, <http://www.icitst.org/>.

I. Teza de doctorat

Petre Angheliescu, "Proiectarea și analiza automatelor celulare pentru prelucrarea informației", coordonator științific: prof. univ. dr. ing. **Emil SOFRON**, susținută public la data de: 07.12.2007.

II. Brevete de invenție

Silviu Ionita, Alin Mazare, Laurentiu Ionescu, **Petre Angheliescu**, "Sistem cu radio-releu translator programabil pentru telecomenzi în IR", cerere OSIM nr: 126719A0 din 28.10.2010.

III. Cărți și capitole în cărți

1. **Petre Angheliescu** – "Cellular Automata Algorithms for Digital Image Processing" *Biometrics: Concepts, Methodologies, Tools, and Applications*, IGI Global, doi: 10.4018/978-1-5225-0983-7.ch017, pp. 382-402, 2017 (<http://www.igi-global.com/chapter/cellular-automata-algorithms-for-digital-image-processing/164612>).

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IV. Articole publicate în reviste cotate și în volumele unor manifestări științifice indexate ISI proceedings

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4. **Petre Angheliescu**, Vlad Gabriel Ilescu, Constantin Mara, Mihai Bogdan Gavriiloaia, "Automatic Thresholding Method for Edge Detection Algorithms", The 8th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2016, Vol. 8, No. 3, ISSN – 1843 – 2115, pp. SW35 – SW38, 30 June – 02 July 2016.
5. Gheorghe Serban, Gabriel Vasile Iana, **Petre Angheliescu**, "Fault detection of direct radiator loudspeaker systems by phase characterisation", The 8th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2016, Vol. 8, No. 3, ISSN – 1843 – 2115, pp. EQ43 – EQ46, 30 June – 02 July 2016.
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9. Cristian Barca, Dan Claudiu Barca, Constantin Mara, **Petre Angheliescu**, Bogdan Gavriiloaia, Radu Vizireanu, Razvan Craciunescu, Octavian Fratu, "Improving Storage Capacity by Distributed Exact Deduplication Systems", The 7th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2015, Vol. 7, Number 1/2015, ISSN – 1843 – 2115, DOI: 10.1109/ECAI.2015.7301141, pp. 11 – 16, Bucharest, 25 – 27 June 2015.

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19. **Petre Angheliescu**, Emil Sofron, Silviu Ionita, Laurentiu Ionescu – „FPGA Implementations of Cellular Automata for Pseudo-Random Number Generation”, The 29th International Semiconductor Conference, CAS 2006, Sinaia, Romania, 27-29 septembrie 2006, IEEE Catalog Number: 06TH8867, ISBN 1-4244-0109-7, pag. 371-374, 2006.

V. Articole publicate în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)

1. Mihai Emilian Preoteasa, **Petre Angheliescu**, "Informatic system used in telephone franchises SIVET", Scientific Bulletin, Series: Electronics and Computers Science, Revista categoria B+ CNCS, Vol. 16, Issue 1, ISSN: 1453-1119, pg. 11-16, 2016 (<https://sites.google.com/site/sciouiupit/>).
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3. **Petre Angheliescu**, "Programmable Cellular Automata Encryption Algorithm Implemented in Reconfigurable Hardware", The International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems, IJATES2, ISSN: 1805-5443, Volume 2, No. 2, pag. 73-78, 2013, <http://www.ijates.org/index.php/ijates/index>.
4. Vasile-Gabriel Iana, **Petre Angheliescu (corresponding author)**, Gheorghe Serban, Cristian-Iulian Rincu, "SHA-1 Cryptographic Algorithm Implemented on FPGA", Scientific Bulletin, Series: Electronics and Computers Science, Revista categoria B+ CNCSIS, Vol. 1/2012, ISSN – 1453 – 1119, pag. 7-12, 2012 http://fecc_bulletin.upit.ro/.
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VI. Articole publicate în reviste și în conferințe fără indexare

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31. Laurențiu Ionescu, Gheorghe Șerban, Valeriu Ionescu, **Petre Angheliescu**, Gabriel Iana – „*Implementation of GAs in Reconfigurable Gates Network*”, Third European Conference on Intelligent Systems and Technologies ECIT Iași 2004, ISBN 973-7994-78-7.
32. Valeriu Ionescu, Gheorghe Șerban, Laurențiu Ionescu, **Petre Angheliescu** – „*Analysis of Area-Speed Tradeoffs in Structures Implemented with Programmable Logic Devices*”, Third European Conference on Intelligent Systems and Technologies ECIT Iași 2004, ISBN 973-7994-78-7.
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VII. Contracte de cercetare științifică

A. Contracte de cercetare castigate in competitie in calitate de director

1. „**Criptosistem bazat pe dinamica haotică implementat cu automate celulare pentru protecția informației în rețelele de comunicații**”, Proiect de cercetare postdoctorala, PD 369, Ministerul Educației, Cercetării, Tineretului și Sportului, Contract nr. 10/02.08.2010 http://uefiscdi.gov.ro/userfiles/file/PROIECTE%20PD%20COMPETITIA%202009/REZULTATE%20PD_DOME_NIU%202_2.pdf.
2. „**Sistem criptografic bazat pe teoria automatelor celulare pentru protecția informației în rețelele de comunicații**”, Grant CNCISIS, TD 365, Ministerul Educației, Cercetării și Inovării, Nr. inreg. 35GR/23.05.2007 http://uefiscdi.gov.ro/articole/1331/COMISIA_2_TD_NOI_FINANTATE.html.

B. Membri in echipe de cercetare

1. „**Advanced pRotection of critical buildinGs by Overall anticipating System - ARGOS**”, EU FP7-SECURITY program, proiect Argos/FP7-SEC-2012-313217, project number 313217 (<http://www.argos-project.eu/>), 2013 – 2015 (membru).
2. “**Testing loudspeaker systems in manufacturing process on the cars**” financed by S.C. DPR. DRAEXLMAIER procese de productie Romania S.R.L, Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept Requespec (LH), project no. 6/21.01.2014 (membru).
3. “**Sistem de criptare cu algoritmi paraleli de calcul – CRIPTALL**”, perioada de derulare: 01.10.2008 – 30.09.2011, MECT/PNII, Contract Nr. 82107/01.10.2008 (membru).
4. „**Sistem informatic de proiectare, simulare, testare si configurare a sistemelor energetice inteligente de energie regenerabila – SINERG**”, perioada de derulare: 01.10.2008 – 30.09.2011, Ministerul Educației, Cercetării și Inovării, Centrul National de Management Programe, Programul 4: “Parteneriate in domeniile prioritare”, Domeniul: D2 – Energie, Contract nr. 22140/25.09.2008 (membru).

5. **“Sistem Complex, Pe Suport NGN, Pentru Teleasistenta, La Domiciliu, A Persoanelor In Varsta” – TELEASIS**, PNCDI-II, Programul Parteneriate în domenii prioritare, Contract Nr. 604-440/14.09.2007 (membru).
6. **“Platforma multimedia pentru implementarea teleserviciilor medicale complexe TELMES”**, program CEEEX, Contract nr. 604/645 21.10.2005 (membru).
7. **“Sistem de Măsură Accelerometric Avansat Pentru Investigari Atmosferice cu Sonde Planetare”**, program AEROSPATIAL, Contract nr.117/15.10.2004 (membru).
8. **„Principii de extindere si optimizare a performantelor laserilor cu mediu activ solid”**, Ministerul Educației, Cercetării și Inovării, Contract nr. 05-D11-27, Nr. înreg. 1018/05-10-2005 (membru).
9. **“Sistem Integrat pentru Utilizatorul Mobil - SIUM”**, Competitie CEEEX, AMCSIT, Ministerul Educatiei si Cercetarii, Contract Nr. 1021/07.10.2005 (membru).
10. **“Dispozitive cu metastructuri pentru procesarea complexa a semnalelor radio in retelele de comunicatii mobile si prin sateliti”**, METAPRO, Program CEEEX, Proiect P-CD, Contract nr. 58/2006 (membru).
11. **“Sistem Interactiv pentru Monitorizarea si Optimizarea Traficului Rutier - OPTIMTRAF”**, CEEEX 2007, Institutul de Cercetari pentru Inteligenta Artificiala, Proiect 1369, Contract nr. 71114 (membru).
12. **“Microsistem de secretizare cu automate celulare în transmisia digitală a datelor”**, Programul MATNANTECH, Ministerul Educației, Cercetării și Inovării, Contract Nr. C145(308)/30.10.2003, Nr. înreg. 5930/20.09.2004 (membru).
13. **“Cronotahograf electronic digital pentru autovehicule de transport marfă și călători”**, Contract de cercetare PNCDI 8C1/2004, Programul AMTRANS, Ministerul Educatiei si Cercetarii, Contract nr. 6810/15.10.2004, Nr. înreg. 3231/15.10.2004 (membru).
14. **„Dezvoltarea de microsisteme electronice pentru aplicatii fiscale”**, S.C. Trion Company S. R. L., Contract nr. 93/21.11.2003, Nr inreg: 8333/21.11.2003 (membru).

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