

LISTA DE LUCRĂRI

A) Teza de doctorat

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

B) Brevete de invenție

1. 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, Număr brevet: 126719 B1, 30 Oct 2017. Derwent Primary Accession Number: 2011-Q12640; International Patent Classification: G08C-023/04; Derwent Class Code(s): W03 (TV and Broadcast Radio Receivers); Derwent Manual Code(s): W03-A02C; W03-G05A.

2. **Petre Angheliescu**, „Dispozitiv de securizare prin criptare a datelor vehiculate în Internet” (Security device for securing internet data by encryption), cerere OSIM nr. A/00084/04.03.2024, International Patent Classification: H04L-009/00 - Arrangements for secret or secure communication INFO 12652, Derwent Class Code(s): T01 (Digital Computers), W01 (Telephone and Data Transmission Systems); Derwent Manual Code(s): T01-D01, W01-A05A, W01-A06F1A; in curs de evaluare.

C) Cărți și capitole în cărți

1. **Petre Angheliescu** – “Cryptographic Techniques Based on Bio-Inspired Systems” , In Cryptography: Breakthroughs in Research and Practice, IGI Global, pp. 99-119, 2020. DOI:10.4018/978-1-7998-1763-5.ch006.
2. Fernando Georgel Bîrleanu, **Petre Angheliescu**, Nicu Bizon, Emil Pricop, „Cyber Security Objectives and Requirements for Smart Grid”, In Handbook of Smart Grid Communications, Springer Verlag London Limited, 28 Pages 607-634, 2019. DOI: 10.1007/978-981-13-1768-2_17.
3. Fernando Georgel Bîrleanu, **Petre Angheliescu**, Nicu Bizon, „Malicious and Deliberate Attacks and Power System Resiliency”, In Power Systems Resilience – Power Systems, Springer, Cham, 2019. DOI: 10.1007/978-3-319-94442-5_9, WOS: 000456874500011.
4. **Petre Angheliescu** – “Cellular Automata Algorithms for Digital Image Processing” *Intelligent Analysis of Multimedia Information*, IGI Global, pp. 212-231, 2017, DOI:10.4018/978-1-5225-0498-6.ch007.
5. **Petre Angheliescu** – “AUTOMATE CELULARE – fundamente și abordări practice cu aplicații în criptare”, Editura MATRIX ROM, 237 pag., ISBN 978-973-755-821-3, București, 2012.
6. Silviu Ioniță, **Petre Angheliescu** – “Ghid pentru realizarea proiectului de diplomă. Cu exemple din domeniul Calculatoare și Tehnologia informației”, Editura Universitară, 120 pag., ISBN 978-606-591-301-1, DOI: 10.5682/9786065913011, București, 2011.
7. **Petre Angheliescu** – “Elemente de Inteligență Artificială și Prolog – Teorie și Aplicații”, Editura Matrix ROM, 130 pag., ISBN 978-973-755-561-8, București, Ianuarie 2010.
8. Laurentiu Ionescu, Alin Mazare, Gheorghe Serban, Gabriel Iana, **Petre Angheliescu** – “Aplicații cu sisteme în timp real”, Editura Matrix ROM, 193 pag., ISBN 978-973-755-611-0, București, Iunie 2010.
9. Gabriel Iana, Gheorghe Serban, Laurentiu Ionescu, **Petre Angheliescu** – “Programarea cu Limbaje de Descriere Hardware – Aplicații în limbajul VHDL”, Editura Matrix ROM, 165 pag., ISBN 978-973-755-562-5, București, Ianuarie 2010.
10. Alexandru Ene, **Petre Angheliescu** – “Structuri de date și algoritmi. Lucrări de laborator”, Editura Universității din Pitești, 138 pag., ISBN 978-973-690-953-5, Pitești, 2009.
11. **Petre Angheliescu**, Ilie Popa – “Algoritmi de programare paralelă și distribuită – Lucrări practice”, Editura Matrix ROM, 197 pag., ISBN 978-973-755-435-2, București, Decembrie 2008.
12. Silviu Ioniță, **Petre Angheliescu**, Adrian Stănescu – “Calcul Numeric Ingineresc. Mediul MATLAB”, Editura Matrix ROM, ISBN 978-973-755-244-0, București, 2007.

D) Articole publicate în reviste cotate ISI WoS

1. George Cosmin Stanica, **Petre Angheliescu** (corresponding author), „Multi-Layer Cryptosystem Using Reversible Cellular Automata”, ELECTRONICS Journal, Volume 14, Issue 13, ISSN: 2079-9292, Article number: 2627, 29 iunie 2025. DOI: 10.3390/electronics14132627 WOS: 001527542800001 (Q2 Journal)
2. Cezar Gabriel Dumitrache, **Petre Angheliescu** (corresponding author), „Design and Implementation of a Secure Communication Architecture for IoT Devices”, Journal of Sensor and Actuator Networks, Volume 14, Issue 4,

- eISSN: 2224-2708, Article number: 64, 23 iunie 2025. DOI: [10.3390/jsan14040064](https://doi.org/10.3390/jsan14040064) WOS: [001557777300001](https://www.wos.com/001557777300001) (Q2 Journal)
3. George Cosmin Stanica, **Petre Anghelescu** (corresponding author), „*Design of a Multi-Layer Symmetric Encryption System Using Reversible Cellular Automata*”, MATHEMATICS Journal, Volume 13, Issue 2, eISSN: 2227-7390, Article number: 304, 18 ianuarie 2025. DOI: [10.3390/math13020304](https://doi.org/10.3390/math13020304) WOS: [001404293900001](https://www.wos.com/001404293900001) (Q1 Journal)
 4. **Petre Anghelescu**, „*Evolution of Hybrid Cellular Automata for Density Classification Problem*”, Symmetry Journal, Volume 16, Issue 5, Article number: 599, eISSN: 2073-8994, 12 mai 2024. DOI: [10.3390/sym16050599](https://doi.org/10.3390/sym16050599) WOS: [001231203500001](https://www.wos.com/001231203500001) (Q2 Journal)
 5. George Cosmin Stanica, **Petre Anghelescu** (corresponding author), „*Reversible Cellular Automata based Cryptosystem*”, Electronics Journal, Volume 13, Issue 13, Article number: 2515, eISSN: 2079-9292, 27 iunie 2024. DOI: [10.3390/electronics13132515](https://doi.org/10.3390/electronics13132515) WOS: [001268005700001](https://www.wos.com/001268005700001) (Q2 Journal)
 6. George Cosmin Stanica, **Petre Anghelescu** (corresponding author), „*Cryptographic Algorithm Based on Hybrid One-Dimensional Cellular Automata*”, MATHEMATICS Journal, Volume 11, Issue 6, eISSN: 2227-7390, Article number: 1481, martie 2023. DOI: [10.3390/math11061481](https://doi.org/10.3390/math11061481) WOS: [000958164200001](https://www.wos.com/000958164200001) (Q1 Journal)
 7. **Petre Anghelescu**, „*Parallel optimization of program instructions using genetic algorithms*”, Journal Computers, Materials & Continua, ISSN: 1546-2218, eISSN: 1546-2226, vol. 67, no.3, pp. 3293–3310, martie 2021. DOI: [10.32604/cmc.2021.015495](https://doi.org/10.32604/cmc.2021.015495) WOS: [000624567900012](https://www.wos.com/000624567900012) (Q2 Journal)
 8. **Petre Anghelescu**, „*Automatic Thresholding Technique Using Reconfigurable Hardware*”, Journal Cybernetics and Systems (Taylor & Francis), ISSN: 0196-9722, ID: 783375, Volume 52, Issue 2, pages 145-168, februarie 2021. DOI: [10.1080/01969722.2020.1804220](https://doi.org/10.1080/01969722.2020.1804220) WOS: [000556074400001](https://www.wos.com/000556074400001) (Q3 Journal)
 9. **Petre Anghelescu**, „*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. WOS:[000393361100003](https://www.wos.com/000393361100003) (Q3 Journal)
 10. **Petre Anghelescu**, Silviu Ionita, Vasile-Gabriel Iana, „*High-Speed PCA Encryption Algorithm using reconfigurable computing*”, Journal Cybernetics and Systems (Taylor & Francis), ISSN: 0196-9722, ID: 783375, Volume 44, Iss. 4, 2013. DOI: [10.1080/01969722.2013.783375](https://doi.org/10.1080/01969722.2013.783375) WOS:[000320016100001](https://www.wos.com/000320016100001) (Q3 Journal)
 11. **Petre Anghelescu**, 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. WOS:[000271530800004](https://www.wos.com/000271530800004) (Q4 Journal)

E) Articole publicate în volumele unor manifestări științifice indexate WoS - ISI proceedings

1. **Petre Anghelescu**, „*Design and Implementation of an Electronic Encryption System Based on Programmable Cellular Automata Algorithm*”, The 47th International Spring Seminar On Electronics Technology, ISSE 2024, ISBN: 979-8-3503-8548-9; 979-8-3503-8547-2, ISSN: 2161-2536, Cehia-Praga, 15-19 mai 2024. DOI: [10.1109/ISSE61612.2024.10603678](https://doi.org/10.1109/ISSE61612.2024.10603678) WOS: [001283808200022](https://www.wos.com/001283808200022)
2. **Petre Anghelescu**, Ionescu Ionela-Mariana, Bodea Marian Bogdan „*Design and implementation of a visual cryptography application*”, The 12th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2020, ISBN: 978-1-7281-6843-2, ISSN: 2378-7147, pp. 1 – 6, 25 June – 27 June 2020. DOI: [10.1109/ECAI50035.2020.9223191](https://doi.org/10.1109/ECAI50035.2020.9223191) WOS: [000627393500067](https://www.wos.com/000627393500067)
3. George Cosmin Stanica, **Petre Anghelescu**, „*Software implementation of a two-dimensional cellular automaton*”, The 12th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2020, ISBN: 978-1-7281-6843-2, ISSN: 2378-7147, pp. 1 – 6, 25 June – 27 June 2020. DOI: [10.1109/ECAI50035.2020.9223178](https://doi.org/10.1109/ECAI50035.2020.9223178) WOS:[000627393500054](https://www.wos.com/000627393500054)
4. George Cosmin Stanica, **Petre Anghelescu**, „*Management software for a publishing company*”, The 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019, ISBN:978-1-7281-1624-2, ISSN: 2378-7147, pp. 1 – 6, Pitesti, 27 June – 29 June 2019. DOI: [10.1109/ECAI46879.2019.9042014](https://doi.org/10.1109/ECAI46879.2019.9042014) WOS:[000569985400058](https://www.wos.com/000569985400058)
5. Marian Novac, Bogdan Marian Bodea, **Petre Anghelescu**, Bogdan Mihai Gavriloaia, Octavian Fratu and Mariuca Gavriloaia „*Japanese Character Recognition with Microstrip Line Networks*”, The 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019, ISBN:978-1-7281-1624-2, ISSN: 2378-7147, pp. 1 – 6, Pitesti, 27 June – 29 June 2019. DOI: [10.1109/ECAI46879.2019.9042042](https://doi.org/10.1109/ECAI46879.2019.9042042) WOS:[000569985400081](https://www.wos.com/000569985400081)
6. Miruna Elena Trufasila, **Petre Anghelescu**, „*Biometric System Based On Facial Recognition*”, The 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019, ISBN:978-1-7281-1624-2, ISSN: 2378-7147, pp. 1 – 6, Pitesti, 27 June – 29 June 2019. DOI: [10.1109/ECAI46879.2019.9042057](https://doi.org/10.1109/ECAI46879.2019.9042057) WOS:[000569985400092](https://www.wos.com/000569985400092)
7. Marian Bogdan Bodea, **Petre Anghelescu**, Bogdan-Mihai Gavriloaia and Dragos-Nicolae Vizireanu, „*Design and Implementation of a Home Automation System*”, The 11th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2019, ISBN:978-1-7281-1624-2, ISSN: 2378-7147, pp. 1 – 6, Pitesti, 27 June – 29 June 2019. DOI: [10.1109/ECAI46879.2019.9041956](https://doi.org/10.1109/ECAI46879.2019.9041956) WOS:[000569985400008](https://www.wos.com/000569985400008)

Lista de lucrări – Prof. univ. dr. ing. habil. Petre Anghelescu

8. **Petre Anghelescu**, Popa Andrei Florin, „*Design and Implementation of a Framework for a Social Network Application*”, The 10th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2018, ISBN: 978-1-5386-4901-5, ISSN: 2378-7147, pp. 1 – 6, Iasi, 28 June – 30 June 2018. **DOI: 10.1109/ECAI.2018.8679087 WOS:000467734100156**
9. **Petre Anghelescu**, Stefan Vladimir Nicolaescu, „*Chatbot Application using Search Engines and Teaching Methods*”, The 10th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2018, ISBN: 978-1-5386-4901-5, ISSN: 2378-7147, pp. 1 – 6, Iasi, 28 June – 30 June 2018. **DOI: 10.1109/ECAI.2018.8678948 WOS:000467734100019**
10. **Petre Anghelescu**, Ioan Adrian Stefan, „*Parking management and control system*”, The 9th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2017, ISBN: 978-1-5090-6458-8, pp. 1 – 4, Targoviste, 29 June – 01 July 2017. **DOI: 10.1109/ECAI.2017.8166395 WOS:000425865900011**
11. **Petre Anghelescu**, Vlad Gabriel Ilescu, Constantin Mara, Mihai Bogdan Gavriloaia, „*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, **DOI: 10.1109/ECAI.2016.7861099, WOS:000402541200035.**
12. Gheorghe Serban, Gabriel Vasile Iana, **Petre Anghelescu**, „*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, **DOI: 10.1109/ECAI.2016.7861082, WOS:000402541200018.**
13. Bogdan Gavriloaia, Radu Vizireanu, Octavian Fratu, Cristian Barca, Constantin Mara, **Petre Anghelescu**, „*Design of Multiband Microwave Filter with Asymmetric Polygonal Microstrip Loops*”, The 8th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2016, Vol. 8, No. 3, ISSN – 1843 – 2115, pp. YO05 – YO08, 30 June – 02 July 2016, **DOI: 10.1109/ECAI.2016.7861105, WOS:000402541200041.**
14. **Petre Anghelescu**, Gabriel Iana, Ionut Tramandan, „*Human footstep detection using seismic sensors*”, The 7th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2015, Vol. 7, Number 2/2015, ISSN – 1843 – 2115, pp. 14 – 18, 2015, **DOI: 10.1109/ECAI.2015.7301179, WOS:000370971100044.**
15. Gabriel Iana, **Petre Anghelescu**, „*Vibration monitoring system for human activity detection*”, The 7th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2015, Vol. 7, Number 2/2015, ISSN – 1843 – 2115, pp. 41 – 44, Bucharest, 25 – 27 June 2015, **DOI: 10.1109/ECAI.2015.7301184, WOS:000370971100049.**
16. Cristian Barca, Dan Claudiu Barca, Constantin Mara, **Petre Anghelescu**, Bogdan Gavriloaia, 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, pp. 11 – 16, Bucharest, 25 – 27 June 2015, **DOI: 10.1109/ECAI.2015.7301141, WOS:000370971100006.**
17. **Petre Anghelescu**, Cosmin Stirbu, „*Cellular Automata Based Algorithm for Image Density Classification Task*”, The 6th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2014, Vol. 6, Number 3/2014, ISSN – 1843 – 2115, pp. 5 – 9, Bucharest, 23 – 25 October 2014, **DOI: 10.1109/ECAI.2014.7090170, WOS:000380489500057.**
18. **Petre Anghelescu**, Stefan Anghelescu, Silviu Ionita, „*Real-time Audio Effects with DSP Algorithms and DirectSound*”, The 6th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2014, Vol. 5, Number 5/2014, ISSN – 1843 – 2115, pp. 35 – 40, Bucharest, 23 – 25 October 2014, **DOI: 10.1109/ECAI.2014.7090207, WOS:000380489500042.**
19. **Petre Anghelescu**, Ionut Serbanescu, Silviu Ionita, „*Surveillance system using IP camera and face-detection algorithm*”, The 5th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2013, Vol. 5, No. 4, ISSN – 1843 – 2115, pp. 47 – 52, 2013, **DOI: 10.1109/ECAI.2013.6636188, WOS:000343672500037.**
20. **Petre Anghelescu**, „*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, **DOI: 10.1109/TSP.2012.6256189, WOS:000308143100003.**
21. Gabriel Iana, **Petre Anghelescu (corresponding author)**, Gheorghe Serban, „*RSA Encryption Algorithm Implemented on FPGA*”, 2011 International Conference on Applied Electronics, ISBN: 978-80-7043-987-6, Print ISBN: 978-1-4577-0315-7, ISSN: 1803 – 7232, IEEE Catalog Number: CFP1169A-PRT, pag. 177 – 180, Cehia, Pilsen, 07 – 08 September 2011, **WOS:000305136600041.**
22. Gabriel V. Iana, Gheorghe Serban, **Petre Anghelescu**, Laurentiu Ionescu, „*Optimization of Sigma-Delta Modulator Based on Artificial Immune Algorithms*”, 12th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, ISBN: 978-1-4244-7020-4, pag. 1010 – 1015, Brasov, 20-22 May 2010, **DOI: 10.1109/OPTIM.2010.5510362, WOS:000291967300150.**
23. **Petre Anghelescu**, 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, pag. 187-192, 9-11 December 2009, **DOI: 10.1109/NABIC.2009.5393680, WOS:000288686500032.**

24. **Petre Anghelescu**, 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, DOI: **10.1109/SMICND.2008.4703423**, WOS:000267590800073.
25. **Petre Anghelescu**, Emil Sofron, Silviu Ionita – „*VLSI Implementation of High-Speed Cellular Automata Encryption Algorithm*”, The 30th International Semiconductor Conference, CAS 2007, Sinaia, Romania, 15-17 octombrie 2007, IEEE Catalog Number: 07TH8934, ISBN 1-4244-0847-4, ISSN: 1545-827X, pag. 509-512, 2007, DOI: **10.1109/SMICND.2007.4519772**, WOS:000255865200110.
26. **Petre Anghelescu**, 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, DOI: **10.1109/SMICND.2006.284022**, WOS:000243090700078.

F) Articole publicate în reviste și în volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI): Scopus, IEEE Xplore, DBLP

1. George Cosmin Stănică, Ștefan Octavian Stănică, **Petre Anghelescu** „*Cryptographic Services Based on Cellular Automata in Image Encryption*”, The 16th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2024, Electronic ISBN:979-8-3503-7115-4, USB ISBN:979-8-3503-7114-7, pp. 1 – 4, Iasi, Romania, 27 June – 28 June 2024. DOI: **10.1109/ECAI61503.2024.10607514**, Indexare: Scopus, IEEE Xplore, DBLP, Google Scholar.
2. George Cosmin Stănică, **Petre Anghelescu** and Ștefan Octavian Stănică „*Hardware Embedded Encryption System based on Programmable Cellular Automata*”, International Semiconductor Conference, CAS 2023, ISBN Information: Electronic ISBN:979-8-3503-2395-5, Print on Demand(PoD) ISBN:979-8-3503-2396-2, ISSN Information: Electronic ISSN: 2377-0678, Print on Demand(PoD) ISSN: 1545-827X, pp. 227 – 230, 11-13 October 2023. DOI: **10.1109/CAS59036.2023.10303686**, Indexare: Scopus, IEEE Xplore, Google Scholar.
3. George Cosmin Stănică, **Petre Anghelescu** (corresponding author) “*Reversible cellular automata encryption algorithm implemented on FPGA*”, 28th International Conference on Applied Electronics, AE 2023, Electronic ISBN: 979-8-3503-3554-5, Print ISBN: 979-8-3503-3555-2, ISSN: 1805-9597, pp. 1 – 4, Cehia, Pilsen, 06 – 08 September 2023, DOI: **10.1109/AE58099.2023.10274351**, Indexare: Scopus, IEEE Xplore, Google Scholar.
4. George Cosmin Stănică; **Petre Anghelescu**, „*Theory and application of reversible cellular automata in cryptography*”, The 15th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2023, Electronic ISBN:979-8-3503-2138-8, USB ISBN:979-8-3503-2137-1, pp. 1 – 4, 29 June – 30 June 2023. DOI: **10.1109/ECAI58194.2023.10194047**, Indexare: Scopus, IEEE Xplore, Google Scholar.
5. George Cosmin Stănică, **Petre Anghelescu** „*Encryption Algorithm using Linear Hybrid Cellular Automaton*”, International Semiconductor Conference, CAS 2022, Electronic ISBN:978-1-6654-5255-7, Print on Demand(PoD) ISBN:978-1-6654-5256-4, Electronic ISSN: 2377-0678, Print on Demand(PoD) ISSN: 1545-827X, pp. 257 – 260, 12-14 October 2022, DOI: **10.1109/CAS56377.2022.9934500**, Indexare: Scopus, IEEE Xplore, Google Scholar.
6. George Cosmin Stănică, **Petre Anghelescu** „*Research and implementation of a two-dimensional cellular automaton*”, The 14th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2022, Electronic ISBN:978-1-6654-9535-6, USB ISBN:978-1-6654-9534-9, pp. 1 – 4, 30 June – 01 July 2022, DOI: **10.1109/ECAI54874.2022.9847412**, Indexare: Scopus, IEEE Xplore, Google Scholar.
7. George Cosmin Stănică, **Petre Anghelescu**; Alin Gheorghiiță Mazăre; Laurențiu Mihai Ionescu; Gheorghe Șerban „*Complex electronic system for monitoring, warning and prevention of water stress and pests detection in agricultural crops*”, The 14th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2022, Electronic ISBN:978-1-6654-9535-6, USB ISBN:978-1-6654-9534-9, pp. 1 – 4, 30 June – 01 July 2022, DOI: **10.1109/ECAI54874.2022.9847453**, Indexare: Scopus, IEEE Xplore, Google Scholar.
8. Mihai Emilian Preoteasa, **Petre Anghelescu**, “*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/scipioupit/>). Index Copernicus Database.
9. Cosmin Stirbu, **Petre Anghelescu**, “*Distributed System Based on Neural Networks to Faults Diagnosis*”, Scientific Bulletin, Series: Electronics and Computers Science, Revista categoria B+ CNCS, Vol. 13, Issue 1/2014, ISSN – 1453 – 1119, pag. 1-6, 2014 http://fecc_bulletin.upit.ro/. Index Copernicus Database.
10. **Petre Anghelescu**, “*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, DOI: **10.11601/ijates.v2i2.12**, <http://www.ijates.org/index.php/ijates/index>. Google scholar database, Crossref database.
11. Vasile-Gabriel Iana, **Petre Anghelescu** (corresponding author), Gheorghe Șerban, Cristian-Iulian Rîncu, “*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/. Index Copernicus Database.
12. **Petre Anghelescu**, “*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, DOI: **10.20533/ijicr.2042.4655.2012.0030**, <http://www.infonomics-society.org/IJICR/>.
13. **Petre Anghelescu**, “*Parallel Algorithms for Matrix Multiplication*”, 2nd International Conference on Future Computers in Education, ICFCE 2012, Lecture Notes in Information Technology, Vols. 23-24, Shanghai, China, ISBN: 978-1-61275-014-9, ISSN: 2070-1918, pag. 65-71, 1-2 June 2012, <http://www.icfce-conf.net/index.htm>.
 14. **Petre Anghelescu**, “*Encryption of Multimedia Medical Content using Programmable Cellular Automata*”, World Congress on Internet Security, WorldCIS-2012, Ontario, Canada, Print ISBN: 978-1-4673-1108-3, **IEEE INSPEC Accession Number: 12948857**, pag. 11-16, 10-12 June 2012, <http://www.worldcis.org/>. Indexare Scopus, IEEE Xplore, Google Scholar.
 15. **Petre Anghelescu**, “*Encryption Algorithm using Programmable Cellular Automata*”, World Congress on Internet Security, WorldCIS-2011, London, England, ISBN: 978-0-9564263-7-6, **IEEE INSPEC Accession Number: 11945844**, pag. 247-253, 21-23 February 2011, <http://www.worldcis.org/>. Indexare Scopus, IEEE Xplore, Google Scholar.
 16. **Petre Anghelescu**, 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, **EID: 2-s2.0-84857480182**, <http://www.icitst.org/>. Indexare Scopus, IEEE Xplore, Google Scholar.
 17. Silviu Ionita, Alin Mazare, Laurentiu Ionescu, **Petre Anghelescu**, „*Indoor Broadcasting System for Personalized TV Emissions Addressed to Tele-Assisted Persons*”, Telematic applications, pp. 208-212, 2010, DOI: **10.3182/20101005-4-RO-2018.00063**. Indexare: DBLP, Scopus.
 18. **Petre Anghelescu**, Monica Chita, Laurentiu Ionescu, „*Hardware implementation of a pseudo-random number generator based on the cellular automat theory*”, 17th Symposium IMEKO TC4 - Measurement of Electrical Quantities, 15th International Workshop on ADC Modelling and Testing, and 3rd Symposium IMEKO TC19 - Environmental Measurements, **EID: 2-s2.0-84872571204**, pp. 661-665, 2010. Indexare: Scopus, IEEE Xplore, DBLP.
 19. **Petre Anghelescu**, “*Evolving Cellular Automata for Density Classification Task*”, Scientific Bulletin, Series: Electronics and Computers Science, Vol. 1/2010, ISSN – 1453 – 1119, pp. 10-18, Revistă categoria B+, 2010.
 20. **Petre Anghelescu** – “*Block Cipher Algorithm Based on Programmable Cellular Automata*”, World Congress on Nature and Biologically Inspired Computing, NaBIC 2010, Kitakyushu, Japonia, IEEE Catalog Number: CFP1095H-CDR, ISBN: 978-1-4244-7375-5, Print ISBN: 978-1-4244-7377-9, INSPEC Accession Number: 11834829, , pag. 72-77, 15-17 December 2010, DOI: **10.1109/NABIC.2010.5716270**. Indexare: Scopus, IEEE Xplore, DBLP.
 21. Gabriel V. IANA, **Petre ANGHELESCU**, Neacsu TRAIAN, Gheorghe SERBAN “*Optimal Implementation of Cryptographic Algorithms on FPGA*”, Scientific Bulletin, Series: Electronics and Computers Science, Vol. 2/2010, ISSN – 1453 – 1119, pp. 17-22, Revistă categoria B+, 2010.
 22. **Petre Anghelescu**, 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, **INSPEC Accession Number: 10234541**, Barcelona – Spania, pp. 96-101, 2008, DOI: **10.1109/HIS.2008.24**. Indexare: Scopus, IEEE Xplore, DBLP.
 23. **Petre Anghelescu**, Silviu Ionita, Emil Sofron, „*Block Encryption Using Hybrid Additive Cellular Automata*”, The 7th International Conference on Hybrid Intelligent Systems, HIS 2007, IEEE Computer Society Press, Library of Congress Number 2007936727, Product Number E2946, ISBN 0-7695-2946-1, Kaiserslautern – Germania, 17-19 septembrie 2007, pp. 132-137, 2007, DOI: **10.1109/HIS.2007.23**. Indexare: Scopus, IEEE Xplore, DBLP.

G) Alte lucrări și contribuții științifice: Articole publicate în reviste și în conferințe fără indexare

1. Gabriel V. Iana, **Petre Anghelescu**, Gheorghe Serban, “*Nonlinear Function Optimizations Based on Clonal Selective Principle for Hardware Implementation*”, The 5th International Conference on Information Technology, ICIT-2011, Amman, Jordan, ISBN: 9957-8583-0-0, 11-13 Mai 2011, <http://www.alzaytoonah.edu.jo/icit/pages/index.aspx>.
2. **Petre Anghelescu**, Marius-Daniel Nita, Silviu Ionita, “*Cryptographic System Using Cellular Automata Implemented on FPGA for Network Communication*”, The 4th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2011, Vol. 4, Number 6/2011, ISSN – 1843 – 2115, pag. 11 – 16, Pitesti, 30 June – 02 July 2011.
3. Silviu Ionita, Sorin Puscoci, **Petre Anghelescu**, “*Sustainable and personalized e-Health solutions. Technologies and applications*”, The 4th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2011, Vol. 4, Number 5/2011, ISSN – 1843 – 2115, pag. 39 – 46, Pitesti, 30 June – 02 July 2011.
4. **Petre Anghelescu**, Silviu Ioniță – „*2-D Cellular Automata for Image Density Classification Task*”, 6th European Conference on Intelligent Systems and Technologies, ECIT 2010, ISSN 2069-038X, pp. 1-13, Iași, 07-09 October, 2010.
5. **Petre Anghelescu**, Silviu Ionita, Andrei Buruleanu, “*Advanced Encryption Standard – Rijndael Algorithm Implemented on FPGA*”, The 3rd International Conference on Electronics, Computers and Artificial Intelligence,

Lista de lucrări – Prof. univ. dr. ing. habil. Petre Anghelescu

- ECAI 2009, University of Pitesti, Department of Electronics and Computers, Number 2/2009, ISSN – 1843 – 2115, pag. 142 – 146, Pitesti, 3-5 July 2009.
6. **Petre Anghelescu**, Emil Sofron, Ilie Popa, Laurentiu Ionescu, Vasile-Gabriel Iana, “*Parallel Algorithms for Matrix-Vector Multiplication*”, The 3rd International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2009, University of Pitesti, Department of Electronics and Computers, Number 3/2009, ISSN – 1843 – 2115, pag. 40 – 46, Pitesti, 3-5 July 2009.
 7. Ionescu Laurentiu Mihai, Mazare Alin, Serban Gheorghe, **Anghelescu Petre**, “*FPGA Implementation of a Hopfield Neural Network for a Real-Time Associative Memory*”, The 3rd International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2009, University of Pitesti, Department of Electronics and Computers, Number 2/2009, ISSN – 1843 – 2115, pag. 93 – 97, Pitesti, 3-5 July 2009.
 8. Constantin Anton, Gabriel Iana, Gheorghe Serban, Ion Tutanescu, **Petre Anghelescu**, “*Hardware Implementation of a Single Bit Error Code Correction*”, Scientific Bulletin, Series: Electronics and computers science, No. 9, Vol. 2/2009, ISSN – 1453 – 1119, pp. 65-70, 2009.
 9. Anton Constantin, Tutanescu Ion, Gheorghe Serban, **Anghelescu Petre**, Iana Gabriel, “*Implementation of hamming codes in reconfigurable hardware*”, The 21st International Conference NAV-MAR-EDU, ISSN: 1843-6749, 2009.
 10. Cristian-Iulian Rîncu, Vasile-Gabriel Iana, **Petre Anghelescu**, Petrică Ciotîrmae, „*Tent map based encryption algorithm*”, The 7th International Conference – Communications 2008, Bucureşti, Editura PRINTECH, ISBN: 978-606-521-008-0, pag. 361-364, 05-07 iunie, 2008.
 11. Adelaida Mateescu, Alexandru Şerbănescu, Vasile-Gabriel Iana, **Petre Anghelescu**, Cristian-Iulian Rîncu, „*FPGA Implementation of Cryptographic Techniques Based on Dynamical Systems*”, The 7th International Conference – Communications 2008, Workshop – „New Technologies and Trends in IT and Communications”, Bucureşti, Editura PRINTECH, ISBN: 978-606-521-008-0, pag. 1-18, 05-07 iunie, 2008.
 12. Silviu Ionita, **Petre Anghelescu**, Sorin Puscoci, Mirela Ionita, „*The patient home assistance application based on telemedicine service*”, Med-e-Tel 2007, ISSN: 1819-186X, pp. 207-211, Luxemburg, 18-20 aprilie, 2007.
 13. **Petre Anghelescu**, Emil Sofron, Silviu Ionita, „*Using Cellular Automata for Security of Multimedia Medical Content*”, The 3rd International Conference – Euro-Mediterranean Medical Informatics and Telemedicine, EMMIT 2007, Mangalia, Romania, 3-5 mai 2007, ISBN: 978-973-739-423-1, pag. 245-251, 2007.
 14. **Petre Anghelescu**, Emil Sofron, Laurentiu Ionescu, Gabriel Iana – „*Self-Replication and Evolution in Cellular Automata Systems*”, The 2nd International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2007, Pitesti 29-30 June 2007, University of Pitesti, Department of Electronics and Computers, Number 1/2007, ISSN – 1843-2115, pag. 27SC – 30SC, 2007.
 15. Cristian-Iulian Rîncu, Gabriel Iana, **Petre Anghelescu** – „*Implementation of Tent Map in Reprogrammable Hardware Structures*”, The 2nd International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2007, Pitesti 29-30 June 2007, University of Pitesti, Department of Electronics and Computers, Number 1/2007, ISSN – 1843-2115, pag. 55SC – 59SC, 2007.
 16. **Petre Anghelescu** – „*Sistem criptografic bazat pe teoria automatelor celulare pentru protectia informatiei in retelele de comunicatii*”, Grant CNCSIS TD365, Revista de politica ştiinţei şi scientometrie, ISSN: 1582-1218, Vol. V, Numar Special 2007 (<http://www.rezultate-granturi.ro/gr2007/Default.aspx>).
 17. Silviu Ionita, Flavius Bajan, **Petre Anghelescu**, Mirela Maria Ionita – „*Mobile remote solution for post-operative patient assistance*”, The 9th International Symposium on Automatic Control and Computer Science (SACCS 2007), E-Health and Bioengineering Workshop (EHB 2007), Iaşi, Romania, 16-17 Noiembrie 2007, publicată în Revista Medico-Chirurgicală a societăţii de medici şi naturalişti din Iaşi (ISSN 0048-7848), Vol III, aprilie-iunie 2007, Nr.2, Supl. 2, pag.125-127.
 18. Gabriel Iana, Gheorghe Serban, **Petre Anghelescu**, Laurentiu Ionescu – „*Aspects on Sigma-Delta Modulators Implementation in Hardware Structures*”, The 4th European Conference on Intelligent Systems and Technologies, ECIT2006, Iasi, Romania, 21-23 septembrie 2006, ISBN(10): 973-730-246-X, ISBN(13): 978-973-730-246-5, 2006.
 19. Silviu Ionita, **Petre Anghelescu**, Emil Sofron, Gabriel Iana – „*Software Applications for Accelerometric Data Capture and Processing*”, The 4th European Conference on Intelligent Systems and Technologies – **Systems for Space Applications**, 21-23 septembrie 2006, editura Performantica, Iasi, ISBN(10): 973-730-255-9, ISBN(13): 978-973-730-255-7, pag. 39-52, 2006.
 20. **Petre Anghelescu**, Silviu Ioniţă, Ilie Popa – „*Performance of MPI based applications*”, The 36th International Scientific Symposium of the Military Equipment and Technologies Research Agency, Bucureşti 26-27 May 2005, Agenţia de cercetare pentru tehnică şi tehnologii militare, ISBN 973-0-03923-2, pag. 202-208.
 21. **Petre Anghelescu**, Laurentiu Ionescu, Gabriel Iana – „*Langton’s Ant Simulation using Cellular Automata*”, The 8th International Conference on Engineering of Modern Electrical Systems, Computer Science and Control Systems, Oradea 26-28 May 2005, University of Oradea, Faculty of Electrical Engineering and Informatics, Analele Universităţii din Oradea, Fascicula Electrotehnica, ISSN 1223-2106, pag. 9-12, 2005.
 22. Laurenţiu Ionescu, **Petre Anghelescu**, Gheorghe Şerban, Alin Mazăre – „*Hardware Implementation for Genetic Algorithms*”, The 8th International Conference on Engineering of Modern Electrical Systems, EMES, Computer

Lista de lucrări – Prof. univ. dr. ing. habil. Petre Anghelescu

- Science and Control Systems, Oradea 26-28 May 2005, University of Oradea, Faculty of Electrical Engineering and Informatics, Analele Universității din Oradea, Fascicola Electrotehnica, ISSN 1223-2106, pag. 53-56, 2005.
23. Silviu Ioniță, **Petre Anghelescu** – „*Vision Based Anticollision System with Application on Industrial Robots*”, The 15th International Conference on Control System and Computer Science, București 25-27 May 2005, Politehnica University of Bucharest, pag.507 – 511, ISBN 973-8449-89-8, 2005.
 24. **Petre Anghelescu**, Emil Sofron, Gabriel Iana, Valeriu Ionescu – „*Pseudorandom Pattern Generators Based on Cellular Automata*”, The 1th International Conference on Electronics, Computers and Artificial Intelligence, Number 5/2005, Pitesti 1-2 July 2005, University of Pitesti, Department of Electronics and Computers, , pag. S4-14 – 19, ISSN – 1453 – 1119, 2005.
 25. Vasile G. Iana, **Petre Anghelescu**, Cosmin Ivan, Emil Sofron, Serban Gheorghe, Alexandru Serbanescu, “*Digital to Analog Converter Based on Sigma-Delta Modulation with Reprogrammable Structures*”, The 1th International Conference on Electronics, Computers and Artificial Intelligence, Pitesti 1-2 July 2005, University of Pitesti, Department of Electronics and Computers, pag. S5-50 – 53, ISSN – 1453 – 1119, 2005.
 26. Valeriu Ionescu, **Petre Anghelescu**, Laurentiu Ionescu, Vasile Gabriel Iana, “*Implementing multipliers for computational intensive applications in reconfigurable hardware*”, Proceedings of the 1st International Conference On Electronics, Computers And Artificial Intelligence, ECAI 2005, Series: Electronics and computers science, Number 5/ 2005, ISSN – 1453 – 1119, pg. S4-67-71, 2005.
 27. Valeriu Ionescu, **Petre Anghelescu**, Laurentiu Ionescu, Gabriel Iana, “*Multiplication optimization for FPGA implementation*”, Scientific Buletin, Series: Electronics and computers science, Nr. 5, Vol. 1/2005, ISSN – 1453 – 1119, pag. 66-70, Universitatea din Pitesti, 2005.
 28. Silviu Ioniță, Emil Sofron, **Petre Anghelescu** - “*Tehnologii bazate pe agenți în automatizarea afacerilor*”, Sesiunea Internațională de Comunicări Științifice 24-25 aprilie 2004, Universitatea din Pitești, Facultatea de Științe Economice și Administrative, Editura AGIR, ISBN 973-8466-56-3, 973-8466-60-1 , pag 225-235.
 29. **Petre Anghelescu**, Silviu Ioniță, Laurentiu Ionescu, Valeriu Ionescu – „*Optimisation of parallel instruction execution using genetic algorithms*”, The 35th International Scientific Symposium of the Military Equipment and Technologies Research Agency, București 27-28 Mai 2004, Agenția de Cercetare pentru Tehnică și Tehnologii Militare, ISBN 973-0-03501-6, pag. 562-572.
 30. **Petre Anghelescu**, Emil Sofron, Silviu Ioniță, – „*Game of Life simulation using Cellular Automata*”, Romanian Journal for Creativity in Engeneering and Technology – Research and Education Reports, Special Issue ECIT 2004, Nr. 44, vol. IX, ISSN 1210 – 3084, Iasi 2004, pag. 1-7.
 31. Laurențiu Ionescu, Gheorghe Șerban, Valeriu Ionescu, **Petre Anghelescu**, 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 Anghelescu** – „*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.
 33. Valeriu Ionescu, Ionel Bostan, **Petre Anghelescu**, Laurentiu Ionescu – “*Folosirea programelor EDA în proiectarea structurilor logice programabile*”, WORKSHOP, Echipamente electronice și inteligență artificială - Aplicații în medicină, Univ. din Pitești, Pitești, 2004, Special number 1/2004, ISSN – 1453 – 1119.
 34. Adrian Zafiu, Corina Săvulescu, **Petre Anghelescu** – „*Utilizarea algoritmilor genetici în interpretarea rezultatelor de laborator*”, Buletin științific, Univ. din Pitești, Pitești, Numărul 4, Vol. 2/2004, ISSN – 1453 – 1119, pag. 55 – 63.

Contracte de cercetare științifică

I. Contracte de cercetare castigate prin competitie in calitate de director

1. ***Modular symmetric cryptosystem for securing traffic in telecommunication networks (Criptosistem simetric modular pentru securizarea traficului in rețelele de telecomunicatii)***, [CRYPTONET], Contract de finantare numar 693PED din 28/06/2022, Cod proiect: PN-III-P2-2.1-PED-2021-3669, <https://uefiscdi.gov.ro/resource-862955-d2.pdf>, perioada de implementare: 28.06.2022 – 28.06.2024, valoare: 520547 lei. Pagina WEB: <http://cryptonet.biohortinov.ro/>
2. ***„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.
3. ***„Sistem criptografic bazat pe teoria automatelor celulare pentru protectia informatiei in 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.

II. Membru in echipe de cercetare

1. „**Advanced pProtection of critical buildinGs by Overall anticipating System - ARGOS**”, EU FP7-SECURITY program, project Argos/FP7-SEC-2012-313217, project number 313217 (<http://www.argos-project.eu/>), 2013 – 2015 (member and responsible for the final phase of the project in Greece, Athens in November-December 2015).
2. "**Creșterea capacității instituționale de cercetare bioeconomică pentru exploatarea inovatoare a resurselor vegetale autohtone, în vederea obținerii de produse horticole cu valoare adăugată ridicată**" – BIOHORTINOV, Cod: PN-III-P1-1.2-PCCDI-2017-0332, Beneficiar: UPIT, Domeniul științific: Bioeconomie, an început: 2018, (membru)
3. „**Test of speaker system regarding feasibility, quality and cost. Theoretical evaluation & documentation of concept**”, Finanțare: S.C. DPR DraexImaier Procese de Productie Romania SRL, Beneficiar S.C. DPR DraexImaier Procese de Productie Romania SRL, Contract nr. : 6/21.01.2014, Nr. Inreg. 5/24.01.2014, Director: Iana Vasile Gabriel, Valoare: 97492.00 lei, (membru)
4. "**Sistem de criptare cu algoritmi paraleli de calcul – CRIPTALL**", perioada de derulare: 01.10.2008 – 30.09.2011, MECT/PNII, Director de proiect: Stefan Gheorghe, Universitatea Politehnica Bucuresti, Contract Nr. 82107/01.10.2008 (membru).
5. „**Sistem complex, pe suport ngn, pentru teleasistenta, la domiciliu, a persoanelor in varstă – TELEASIS**”, perioada de derulare: 01.10.2007 – 30.09.2010, PNCDI-II, Programul Parteneriate în domenii prioritare, Director de proiect: Sorin Puscoci, Institutul National de Studii si Cercetari pentru Comunicatii, Contract Nr. 604-440/14.09.2007 (membru).
6. "**Platforma Multimedia pentru Implementarea Teleserviciilor Medicale Complexe - TELMES**", perioada de derulare: 10.10.2005 – 10.12.2007, Programul Cercetare de Excelenta, Autoritatea Nationala pentru Cercetare Stiintifica, Director de proiect: Sorin Puscoci, Institutul National de Studii si Cercetari pentru Comunicatii, Contract Nr. 1026/21.10.2005 (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**", perioada de derulare: 03.10.2005 – 17.07.2008, Competitie CEEEX, AMCSIT, Ministerul Educatiei si Cercetarii, Director de proiect: Stanescu Emil, Institutul National de Cercetare Dezvoltare in Informatica, ICI Bucuresti, 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**", perioada de derulare: 18.09.2007– 18.09.2010, CEEEX 2007, Tipul proiectului PC, Director de proiect: Angela Ionita, 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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Prof. univ. dr. ing. habil. Petre Anghelescu