

A. The Ph.D. Thesis

1. "Communications on chaotic carrier. Applications in Romanian Military Communications System", at Military Technical Academy, in Electronics, Communications and Information Technologies, Diploma Series C No. 0008728, coordinated by Professor Alexandru Șerbănescu, March 2004.

B. List of the Specialized Books

1. **P. Ciotîrnae**, C.I. Rîncu and A. Digulescu-Popescu, "Broadband Switching and Transport Systems", Military Technical Academy Publisher, **2017**, ISBN 978-973-640-266-1, CIP 2017-17146, 110 p.
2. **P. Ciotîrnae**, R.D. Raicu and D.E. Brînar, "Digital Optical Fiber Communication Systems", Military Technical Academy Publisher, **2017**, ISBN 978-973-640-271-5, CIP 2017-16629, 114 p.
3. **P. Ciotîrnae**, "Digital Switching and Multiplexing Systems", Military Technical Academy Publisher, **2009**, ISBN 978-973-640-171-8, CIP 2009-8126, 188 p.
4. C. Bălan, A. Șerbănescu, **P. Ciotîrnae** and C.I. Rîncu, "Methods, techniques and technologies in communications. Applications", Military Technical Academy Publisher, **2007**, ISBN 978-973-640-132-9, 286 p.
5. G. Savu and **P. Ciotîrnae**, "Telephony Switching and Multiplexing Systems. Seminars", Military Technical Academy Publisher, **2017**, ISBN 978-973-640-267-8, CIP 2017-17145, 144 p.
6. L. Tuță and **P. Ciotîrnae**, "Switching and Multiplexing Systems. Laboratory Guidance", Military Technical Academy Publisher, **2017**, ISBN 978-973-640-272-2, CIP 2017-16630, 60 p.

C. List of the Scientific Papers

1. C. Leca, I. Nicolaescu, and **P. Ciotîrnae**, "Crowdsensing Influences and Error Sources in Urban Outdoor Wi-Fi Fingerprinting Positioning", *Sensors* **2020**, 20, 427. ISSN 1424-8220; CODEN: SENS99
<https://doi.org/10.3390/s20020427> , <https://www.mdpi.com/journal/sensors>
2. C. Dumitrescu, M. Minea and **P. Ciotîrnae**, "UAV Detection Employing Sensor Data Fusion and Artificial Intelligence", © Springer Nature Switzerland AG **2020**, L. Borzemski et al. (Eds.): ISAT 2019, AISC 1050, pp. 129–139, 2020, International Conference on Information Systems Architecture and Technology, Poland,
<http://www.isat.pwr.edu.pl/>, https://doi.org/10.1007/978-3-030-30440-9_13
3. A. IDITA, L. TUȚĂ, G. ROȘU, **P. Ciotîrnae** and O. BALTAG, "Indoor Assessment of Screening Efficiency through Absorption and Reflection", 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE) **2019**, IF=0.25 <https://ieeexplore.ieee.org/document/8725003>
4. M. I. Candrea-Bozga and **P. Ciotîrnae**, "Integrated Management of Transport and Commutation Resources over the Network Layer", *Journal of Military Technology*, Vol. 2, No. 1, June **2019**, pp. 27-31, DOI 10.32754/JMT.2019.1.05,
<https://jmiltechnol.mta.ro/3/Integrated%20Management%20of%20Transport%20and%20Commutation%20Resources%20over%20the%20Network%20Layer-min.pdf>
5. V. D. Nicolae and **P. Ciotîrnae**, "QoS Prioritization Behavior in an Broadband Hybrid Network", *Journal of Military Technology*, Vol. 2, No. 1, June **2019**, pp. 35-38, DOI 10.32754/JMT.2019.1.07,
<https://jmiltechnol.mta.ro/3/QoS%20Prioritization%20Behavior%20in%20an%20Broadband%20Hybrid%20Network-min.pdf>
6. L. B. Dudu, F.G. Popescu and **P. Ciotîrnae**, "Command and Control System for Video Sensors Communications Based on Python Application for Mobile Smart Device", *Journal of Military Technology*, Vol. 2, No. 2, December **2019**, pp. 05-08, DOI 10.32754/JMT.2019.2.01, https://jmiltechnol.mta.ro/4/1_Dudu,%20Popescu,%20Ciotirnae-min.pdf

7. P. Ciotîrnae and L.D. Murariu, "Performance Evaluation of the VoIP Networks Using Tunneling Techniques", 11th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2019, June 27–29, 2019, **IEEE Catalog** Number CFP1727U-ART, Vol. 11 – No. 1/2019 **ISSN** 1843-2115, **ISBN** 978-1-7281-1624-2, **(submitted to IEEE Xplore)**
8. T.C. Oroian, F. Enache and P. Ciotîrnae, "Some considerations about third-order statistics for different types of radar signals", 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, March 23-25, 2017, pp. 9-12, **DOI:** 10.1109/ATEE.2017.7905090, **WOS:000403399400003**, **IEEE Xplore**, **IF=0.25** <http://ieeexplore.ieee.org/document/7905090/>
9. C.L. Leca, P. Ciotîrnae, C.I. Rîncu and I. Nicolaescu, "Characteristics of Crowdsourcing for Outdoor Radio Fingerprinting Positioning", 9th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2017, June 29–July 01, 2017, **IEEE Catalog** Number CFP1727U-ART, Vol. 9 – No. 1/2017 **ISSN** 1843-2115, **ISBN** 978-1-5090-6458-8, **(submitted to IEEE Xplore)** http://ecai.ro/VOLUME%202017/ECAI-2016%20VOLUMES/POSTER/ECAI-2017_paper_30.pdf
10. I. Firiceanu, I.F. Ţone, P. Ciotîrnae and N. Lucaci, "Application for Library with Online Database Access, Architecture and Performance Analysis", 9th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2017, June 29–July 01, 2017, **IEEE Catalog** Number CFP1727U-ART, Vol. 9 – No. 1/2017 **ISSN** 1843-2115, **ISBN** 978-1-5090-6458-8, **(submitted to IEEE Xplore)** http://ecai.ro/VOLUME%202017/ECAI-2016%20VOLUMES/YOUNG/ECAI-2017_paper_75.pdf
11. N. Lucaci, P. Ciotîrnae, I.F. Ţone, and I. Firiceanu, "Specific Access Architecture for Computer Networks with AAA Server Solution", 9th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2017, June 29–July 01, 2017, **IEEE Catalog** Number CFP1727U-ART, Vol. 9 – No. 1/2017 **ISSN** 1843-2115, **ISBN** 978-1-5090-6458-8, **(submitted to IEEE Xplore)** http://ecai.ro/VOLUME%202017/ECAI-2016%20VOLUMES/IWSSC/ECAI-2017_paper_77.pdf
12. A. Sandu, A. Digulescu, C. Ioana, I. Candel, A. Şerbănescu and P. Ciotîrnae, "Underwater acoustic object imaging using spatial matched filtering", OCEAN 17 Anchorage, September 18–21, 2017, **(accepted)**, <http://www.oceans17/IEEE/technical-program/>
13. M.V. Nichita, P. Ciotîrnae, R.L. Luca and V.N. Petrescu, "5G propagation: Current solutions and future proposals," 2016 12th IEEE International Symposium on Electronics and Telecommunications (ISETC'2016), Timisoara, 2016, pp. 47-50. **DOI:** 10.1109/ISETC.2016.7781054, **ISBN** 978-1-5090-3748-8, **WOS:000390717800011**, **IEEE Xplore**, **IF=0.25** <http://ieeexplore.ieee.org/document/7781054/>
14. R. Luca, P. Ciotîrnae, F. Popescu, "Influence of the QoS Measured for VoIP Traffic in a Congested Network", International Journal of Computers Communications & Control (IJCCC), **ISSN** 1841-9836, 11(3):322-321, June 2016, **WOS:000373296600008**, **JCR2016: IF=1.374** <http://univagora.ro/jour/index.php/ijccc/article/view/2558/1004>
15. R. Luca, P. Ciotîrnae and V. Greu, "Evaluation and improvement of WiMAX real throughput at application level using experimental study analysis and resulted optimization rules", 2016 International Conference on Communications (COMM), Bucharest, 2016, pp. 195-200, **DOI:** 10.1109/ICComm.2016.7528308, **WOS:000383221900041**, **IEEE Xplore**, **IF=0.25** <http://ieeexplore.ieee.org/document/7528308/>
16. V. N. Petrescu, P. Ciotîrnae, C. Rîncu, A. Aloman and M. Nichita, "Performance evaluation of the integrated platforms using VoIP signaling protocols analysis," 2016 International Conference on Communications (COMM), Bucharest, 2016, pp. 181-184, **DOI:** 10.1109/ICComm.2016.7528333, **WOS:000383221900038**, **IEEE Xplore**, **IF=0.25**, <http://ieeexplore.ieee.org/document/7528333/>
17. A. Aloman, A. I. Ispas, P. Ciotîrnae, R. Sanchez-Iborra and M. D. Cano, "Performance Evaluation of Video Streaming Using MPEG DASH, RTSP, and RTMP in Mobile Networks," 2015 8th IFIP Wireless and Mobile Networking Conference (WMNC), Munich, 2015, pp. 144-151, **DOI:** 10.1109/WMNC.2015.12, **ISSN** 978-0-7695-5662-8/15, **WOS:000380445700019**, **IEEE Xplore**, **IF=0.25**, <http://ieeexplore.ieee.org/document/7396692/>
18. D. Hrimiuc, A. Gagiuc, P. Ciotîrnae, "Modern Communications Modules in e-Learning Systems", in Proceedings of 11th International eLearning & Software for Education, pp. 158-161, Bucharest, 23-24 April 2015, **DOI:**

10.12753/2066-026X-15-024, ISSN 2066-026X, WOS:000384469000024, IF=0.25

<http://proceedings.elseconference.eu/paper162>

19. V. Greu, P. Ciotîrnae, F. Popescu, I. Sima, "Interference Study and Algorithm With Interference Activity Evaluation Criteria Using Experimental Data to Optimize Wi-Fi Networks", 10-12 September 2015, 11th International Conference on Technical and Physical Problems of Electrical Engineering, ICTPE-2015, ISSN 2309-0553 Proceedings: ISSN 2309-0545 (IDB Ranked)
<https://www.researchgate.net/publication/283497117>
20. V. Greu, P. Ciotîrnae, I. Sima, F. Popescu, „A New Algorithm for Optimizing IEEE 802.11 Network Based on Interference Activity Evaluation Criteria,” International Journal on “Technical and Physical Problems of Engineering”, (IJTPE), Published by International Organization of IOTPE, December 2015, Issue 25, Volume 7 Number 4, Pages 55-61, ISSN 2077-3528, <http://www.iotpe.com/IJTPE-2015/Issue25-Vol7-No4>
21. P. Ciotîrnae, F. Popescu, F. Enache, "Extended Study Regarding Sustained Transfer Rate for 802.11 Wi-Fi Communications With Partially Overlapped Channels Interference", in Annals of the University of Craiova, Electrical Engineering series, no. 38, pp. 164-169, 2014, ISSN 1842-4805, <http://elth.ucv.ro/2014/164.pdf>
22. P. Ciotîrnae, F. Popescu, F.R. Enache and M.G. Burgos, "Extended Partially Overlapped Channel Interference Model and Study for 802.11 Wi-Fi Communications", in Proceedings of International Conference on Applied and Theoretical Electricity (ICATE), 2014, pp. 164-169, 2014, Craiova, 23-25 October 2014, DOI: 10.1109/ICATE.2014.6972656, INSPEC Accession Number: 14791578
WOS:000352737400067, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/6972656/>
23. F. Popescu, F.R. Enache, I.C. Vizitiu and P. Ciotîrnae, "Recurrence Plot Analysis for Characterization of Appliance Load Signature", in Proceedings of 10th International Conference Communications 2014, pp. 101-104, 2014, Bucharest, 29-31 May 2014, ISBN 978-1-4799-2385-4, CPF1441J-ART, DOI: 10.1109/ICComm.2014.6866747, INSPEC Accession Number: 14484834
WOS:000345844600091, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/6866747/>
24. V. Greu, P. Ciotîrnae, F. Popescu, M.G. Burgos, I. Sima, "Model and Algorithm for the Estimation of Internal/Environmental Interference Influence and Improvement of IEEE 802.11/WiFi Networks Performance, Using Passive Monitoring", in Proceedings of 10th International Conference Communications 2014, pp. 449-452, 2014, Bucharest, 29-31 May 2014, ISBN 978-1-4799-2385-4 (IEEE Xplore), CPF 1441J-ART, DOI: 10.1109/ICComm.2014.6866664, INSPEC Accession Number: 14484799, WOS:000345844600008, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/6866664/>
25. I.C. Vizitiu, P. Ciotîrnae, A. Kovacs and M. Mazîlu, "Pattern Recognition Using GAMLN Systems: A Comparative View as Performance Level", in Proceedings of 9th International Conference Communications 2012, pp. 125-128, 2012, Bucharest, 21-23 June 2012, ISBN 978-1-4577-0058-3/-12, CPF 1241, DOI: 10.1109/ICComm.2012.6262578, INSPEC Accession Number: 12932595
WOS:000307808200028, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/6262578/>
26. V. Greu, P. Ciotîrnae, I.C. Vizitiu, S. Cernea and O. Poncea, "A Secure Routing Algorithm With Additional Cognitive Information Scalable Features for the Design Approach of the Tactical Frequency Hopping Radios Ad-Hoc Networks (TAFHNET)", in Proceedings of 9th International Conference Communications 2012, pp. 181-184, 2012, Bucharest, 21-23 June 2012, ISBN 978-1-4577-0057-6 (IEEE Xplore), CPF 1241, DOI: 10.1109/ICComm.2012.6262566, INSPEC Accession Number: 12932583
WOS:000307808200041, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/6262566/>
27. I.C. Vizitiu, I. Nicolaescu, A. Stoica, P. Ciotîrnae, A. Radu and C. Molder, "An Optimal Full-Genetic Technique used to train RBF Neural Networks", in Proceedings of the 9th International Symposium on Electronics and Telecommunications (ISETC 2010), Timișoara, Romania, November 11-12, 2010, pp. 319-322, ISBN 978-1-4244-8458-4, CFP1003L-PRT, DOI: 10.1109/ISETC.2010.5679259, INSPEC Accession Number: 11745511
WOS:000296356700068, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/5679259/>
28. I.C. Vizitiu, P. Ciotîrnae, T. Oroian, A. Radu, F. Popescu, C. Avram, "Training of RBF Neural Networks using a Full-Genetic Approach", in WSEAS Transaction on Information Science and Applications, Issues 8, Volume 7, August

- 2010, pp. 1015-1024, ISSN 1790-0832 (ACM, Scopus ranked), Indexed in Elsevier's SCOPUS, INSPEC <http://wseas.org/4046>, <http://www.worldses.org/journals/Vo7-2010.htm>
29. I.C. Vizitiu, P. Ciotîrnae, S. Spînu, "A Full-Genetic Approach to Train RBF Neural Networks", in MTA Review, Volume 20, No. 3, pp.177-194, Sept. 2010, ISSN 1843-3391, http://www.journal.mta.ro/vol13_articol119
 30. P. Ciotîrnae, I.C. Rîncu, G. Niculescu and L. Ioan, "Evaluation of Global Database Queries Configuration Influence on the Message Delay in SS7 Networks", in Proceedings of 8th International Conference Communications 2010, pp. 305-308, 10-12 June 2010, Bucharest, 2010, ISBN 978-1-4244-6363-3 (IEEE Xplore), DOI: 10.1109/ICComm.2010.5509023, INSPEC Accession Number: 11417271, WOS:000299870700072, IEEE Xplore, IF=0.25, <http://ieeexplore.ieee.org/document/5509023/>
 31. G. Niculescu, P. Ciotîrnae and L. Ioan, "The Packet Delay in a MPLS Network Using "1+1 Protection", in Proceedings of 6th Advanced International Conference on Telecommunications AICT 2010, pp. 231-235, 9-15 May 2010, Barcelona, Spain, 2010, ISBN 978-0-7695-4021-4, DOI: 10.1109/AICT.2010.94, INSPEC Accession Number: 11374629, IEEE Xplore, <http://ieeexplore.ieee.org/document/5489838/>
 32. I.C. Vizitiu, P. Ciotîrnae and I. Nicolaescu, "High-Performance Pattern Recognition System Using an Improved Neural Classification Chain and Decision Fusion on Multispectral Information", in Proceedings of the 2th International Conference on the Applications of Digital Information and Web Technologies, 2009, ICADIWT '09, pp. 772-777, London 04-06 Aug. 2009, ISBN 978-1-4244-4456-4, INSPEC Accession Number: 10905914, DOI: 10.1109/ICADIWT.2009.5273924, WOS:000288359000130, IEEE Xplore, IF=0.25 <http://ieeexplore.ieee.org/document/5273924/>
 33. P. Ciotîrnae, D. Sipsan, C. Niculae, R.D. Raicu, "Bio-Inspired Model for the Traffic Optimization into Laser Communication Networks", in Proceedings of the 10th International Congress of Dermatology, Prague (Czech Republic), May 20-24, 2009, pp. 295-301, ISBN 978-88-7587-536-7, Ed. Medimond Press. WOS:000360242200051, ISI Web of Science, IF=0.25
 34. P. Ciotîrnae, I.C. Vizitiu, C. Rîncu, "Teletraffic Analysis and Optimization using Chaotic Maps", in Proceedings of the International Conference of Military Technologies (ICMT'09), Brno, Czech Republic, May 5-6, 2009, pp.493-498, ISBN 978-80-7231-649-6, Indexed in Web of Science, WOS:000284810600069, IF=0.25, http://www.unob.cz/fvt/struktura/k206/documents/veda/konference_icmt_2009.pdf
 35. I.C. Vizitiu, P. Ciotîrnae, "Multispectral Neural ATR System using the Decision Fusion Between HRR and Thermal Imaginary", in Proceedings of the International Conference of Military Technologies (ICMT'09), Brno, Czech Republic, May 5-6, 2009, pp.261-268, ISBN 978-80-7231-649-6, Indexed in Web of Science (ISI CPCI) WOS:000284810600036, IF=0.25 http://www.unob.cz/fvt/struktura/k206/documents/veda/konference_icmt_2009.pdf
 36. I.C. Vizitiu and P. Ciotîrnae, "Neural Design Procedure for an ATTR System Based on Video Imagery Use", 9th WSEAS International Conference on Automation and Information, JUN 24-26, 2008, Bucharest, ROMANIA, ISBN 978-960-6766-77-0, ISSN 1790-5117 WSEAS Transaction on Circuits and Systems, Issue 7, Vol. 7, pp.590-599, Print-ISSN: 1109-2734, E-ISSN: 2224-266X, 2008 Indexed in Elsevier's SCOPUS, INSPEC, WOS:000258497000088, IF=0.25 <https://pdfs.semanticscholar.org/pdf> (<http://wseas.org/action2861>), <http://www.worldses.org/journals/circuits/circuits-2008.htm>,
 37. P. Ciotîrnae, D. Sipsan, R.D. Raicu, "A Connection Between Communication Within The Living World And Traffic Models For Laser Communication Systems", ABSTRACT in Lasers in Medical Science Journal No. 10103, ISSN: 0268-8921 (print version), ISSN: 1435-604X (electronic version), Volume 24, Supplement 1, October 2009, pp. 49-50, Digital Object Identifier: 10.1007/s10103-009-0735-7, Springer London, 2009, (ISI Thomson Reuters Ranked), IF=2.29 <https://link.springer.com/journal/10103>
 38. D. Sipsan, P. Ciotîrnae, R.D. Raicu, "Improving the Quality of Stored Blood by Low-Level Laser Irradiation prior to Transfusion Procedures", in MTA Review, Volume 19, No. 3, pp.311-332, Sept. 2009, ISSN 1843-3391, <http://www.journal.mta.ro/volum9/articol92>
 39. D.P. Munteanu, O. Brădeanu, P. Ciotîrnae and I.C. Vizitiu, "Zone Profile Generation for Location Based Services and Traffic Analysis", in Proceedings of the 12th WSEAS International Conference on Communications, Heraklion,

- Greece, July 23-25, **2008**, pp.386-390, ISSN 1790-5117, ISBN 978-960-6766-84-8 ISI, **WOS:000260496700056, IF=0.25**
<http://www.wseas.us/e-library/conferences/2008/crete/communications/57-com.pdf>
40. I.C. Vizitiu, I. Nicolaescu, **P. Ciotîrnae**, D.P. Munteanu and C. Molder, “*Target Recognition Improvement using the Decision Fusion Between HRR and Video Imaginary*”, International NAUN Conference on Circuits, Systems and Signals 2008, Attica, Greece, June 1-3, **2008**, published in *Advances in Applied Mathematics, Systems, Communications and Computers*, pp.120-125, ISBN 978-960-6766-69-5, ISSN 1790-2769, **WOS:000257984000019, ISI Web of Science, IF=0.25**
<http://naun.org/cms.action?id=119>, <http://www.wseas.us/e-library/conferences/2008/naun/cd/19.pdf>
 41. I.C. Vizitiu and **P. Ciotîrnae**, “*Genetic Procedure for Optimization of RBF Neural Network Center Positioning*”, in Transaction on Electronics and Communications, pp.91-94, Tom 53(67), Fascicola 1, **ISSN 1583-3380** (CNCSIS B ranked), Index in Copernicus, Electronic Journals Library, Directory of Open Access Journals, Ulrich's, Cabells,
http://www.tc.etc.upt.ro/bulletin/pdf/2008vol53_67no1.pdf
 42. D.P. Munteanu and **P. Ciotîrnae**, “*Using MELP Technology in Military Applications*”, in MTA Review, Volume 18, No.3, pp.273-278, Sept. **2008**, ISSN 1843-3391, <http://www.journal.mta.ro/volum5/articol51>
 43. I.C. Rîncu, G. Iana, P. Angheliescu and **P. Ciotîrnae**, “*Tent Map based Encryption Algorithm*”, in Proceedings of the 7th International Conference Communications 2008, Bucharest, Romania, June 5-7, **2008**, pp. 361-364, **ISBN 978-606-521-008-0, IEEE no. 13725**, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 44. S. Toma, D.P. Munteanu and **P. Ciotîrnae**, “*Letter to Sound System for the Romanian Language*”, in Proceedings of the 7th International Conference Communications 2008, Bucharest, Romania, June 5-7, **2008**, pp.85-88, **ISBN 978-606-521-008-0, IEEE no. 13725**
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 45. I.C. Vizitiu, and **P. Ciotîrnae**, „*Increasing the Radar ATR System Performances by Using a Modified Version of Fuzzy Integral Applied on HRR and Video Imaginary*”, NAUN International Journal of Circuits, Systems and Signal Processing, Issue 4, Volume 1, 2007, pp. 295-302, **ISSN 1998-4464**
<http://www.naun.org/main/NAUN/circuitssystemsignal/cssp-50.pdf>
 46. D.P. Munteanu and **P. Ciotîrnae**, “*MELP Vocoder Implementation Aspects*”, in Proceedings of The 32th Session of International Conference “Modern Technologies in the 21st Century”, Bucharest, November **2007**, **ISBN 978-973-640-127-5**, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 47. F. Popescu and **P. Ciotîrnae**, “*Parametric Speech Coders in Military Communication Systems*”, in Proceedings of International Scientific Conference “New Challenges in the Field of Military Sciences 2006”, **ISBN 978-963-87706-2-2**, pp.66-70, Budapest, 2006, Hungary
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 48. **P. Ciotîrnae**, C. Bălan, I. Praoveanu and T. Necşoiu, “*Special Requests for Tactical Laser Communication Systems*”, in the Proceedings of the 36th International Scientific Symposium of the Military Equipment and Technologies Research Agency, pp.624-627, May 26-27, Bucharest, **2005**, **ISBN 973-0-03923-2**,
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 49. L. Ioan, I. Praoveanu, **P. Ciotîrnae**, C. Bălan and I.C. Rîncu, “*Aspects on Call Processing for Mobile Networks*”, in the Proceedings of the 36th International Scientific Symposium of the Military Equipment and Technologies Research Agency, pp.578-581, May 26-27, Bucharest, **2005**, **ISBN 973-0-03923-2**,
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 50. **P. Ciotîrnae**, L. Ioan, I. Praoveanu and C. Bălan, “*Traffic Analysis in Communication Networks*”, The 31th Session of International Conference “Modern Technologies in the 21st Century”, Bucharest, **2005**, **ISBN 973-640-074-3**,
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
 51. **P. Ciotîrnae**, “*Solutions for voice and data transmission protection in communication system of Romanian army*”, in Proceedings of the 35th Scientific Symposium of the Military Equipment and Technologies Research Agency 2004, Bucharest, Romania, May 28-29, **2004**
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>

52. P. Ciotîrnae, "Secure Data Transmissions on Multiple Eurocom Channels", in Proceedings of the 5th International Conference **Communications 2004**, Bucharest, Romania, June 3-5, **2004**, pp. 165-170, ISBN 973-640-035-2, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
53. P. Ciotîrnae, "Chaotical Protection Algorithm for Delta Modulated Voice Channel", in Proceedings of the 5th International Conference **Communications 2004**, Bucharest, Romania, June 3-5, **2004**, pp. 171-174, ISBN 973-640-035-2, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
54. A. Şerbănescu, P. Ciotîrnae and D. Andrei, „Applications of nonlinear dynamics to communications security”, Proceedings of The 11th Conference on Applied and Industrial Mathematics May 29-31, 2003, Oradea, Romania CAIM 2003, Vol. 2, ISBN 973-613-332-X
https://www.romai.ro/documente_poze/Conferinte/Caim03/caim03v2.pdf#page=93
55. V. Greu, I. Sima, P. Ciotîrnae and C. Gherghiceanu, "Considerations Regarding Multiband Antennas", The 3th International Conference, Communication 2000, pp. 146-149, 7-9 December 2000, Bucharest, Romania, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
56. P. Ciotîrnae, V. Greu, I. Sima and C. Gherghiceanu, "CDMA with Chaotic Signals", The 3th International Conference, Communication 2000, pp. 426-429, 7-9 December 2000, Bucharest, Romania, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
57. A. Şerbănescu and P. Ciotîrnae, "High-Order Statistical Analysis of Chaotic Sequences for Spread Spectrum Systems" International Conference, CAIM'99, September 1999, Piteşti, Romania
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
58. P. Ciotîrnae and C. Irimia, "Secure Communication Systems based on Chaotic Behaviour", The 2th International Conference, **Communication'98**, pp. 301-306, November 19-20, 1998, Bucharest, Romania, <https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>
59. A. Şerbănescu, P. Ciotîrnae and V. Eugen, „Iterative aspects in nonlinear dynamical system with chaotic behaviour”, Proceedings for Analysis and Numerical Solution of Nonlinear Models of Physical Phenomena, 19 - 21 May 1997, International symposium supported by US Air Forces European Division, 19-21 may 1997, Universitatea de Vest, Timișoara, Romania
<http://www.dtic.mil/get-tr-doc/pdf?AD=ADA326513#page=123>
60. P. Ciotîrnae and A. Şerbănescu, "Synchronization Methods in Communication on Chaotic Carrier", The 1st International Conference Communication'96, 27-29 November 1996, Bucharest, Romania
<https://scholar.google.ro/citations?hl=en&user=52jOEZMAAAAJ>

D. List of the Scientific Research Projects

Project manager

1. Project No. **9SOL/2018**, "Integrated System for Support and Command of Crisis Response Actions", National Research, Development and Innovation Program (PNCDI III), Solutions, Acronym SIS-COM-ISC, Initial budget 8.000.000 lei, **2018-2021**
www.9sol.ro ; <https://mta.ro/proiecte-in-derulare/>
<https://uefiscdi.gov.ro/solutii-sistem-integrat-pentru-suportul-si-conducerea-interventiilor-in-situatii-de-criza>
2. Project No. **11-029/2007**, "Complex analysis and optimization system for teletraffic in communication networks with technological diversity and convergence of services", National Research, Development and Innovation Program (PNCDI II), Partnership, Acronym ATRAF, Initial budget 1.960.000 lei, **2007-2010**
www.ataf.ro, <http://www.mta.ro/proiecte-finalizate/>
3. Project no. **A 10136/28.12.2006**, "Analysis, optimization and new technologies", Contractor: S.C. Marctel SIT Srl., Initial budget 84.000 lei, **2007-2008**

Partner project manager

4. Project No. **12/2006**, “Secure Communications for Eurocom Networks”, Research of Excellence Programs (CEEX), Acronym SCE-SCIP, Initial budget 1.011.974 lei, **2006-2008**
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=2617

Team member (extras)

5. Project No. **A9188/2013**, “Advanced Antennas for Space Communications”, Romanian Space Agency, Acronym ADANSPACE, Initial budget 275.000 lei, **2013-2016**
<http://www.mta.ro/proiecte-in-derulare/>
6. Project No. **21-075/2007**, “Hybrid electrical power generation system using renewable resources”, National Research, Development and Innovation Program (PNCDI II), Partnership, Acronym SCHIELDS, Initial budget 2.000.000 lei, **2007-2010**
<http://www.mta.ro/proiecte-finalizate/>
7. Project No. **28/05.10.2006**, “Advanced studies and research regarding disturbed atmospheric medium laser communication systems”, Research of Excellence Programs (CEEX), Acronym SCL-MAP, Initial budget 844.800 lei, **2006-2008**
http://www.cnmp.ro/ceex/comp1_2006/oferta.php?id=6714
8. Project No. **16/27.07.2006**, “Systems security and civilian-military actions used in crises and armed conflicts management”, Research of Excellence Programs (CEEX), Acronym CESTIONARE, Initial budget 1.200.000 lei, **2006-2008**
9. Project No. **278/2014**, “Explosion protection system for equipping vehicles”, PNII-UEFISCDI, Acronym CREWPROTECT, Initial budget 1.250.000 lei, **2014-2017**
<http://old.uefiscdi.ro/userfiles/file/PARTENERIATE/Competitie%202013/Buget%202016/Sume/Domeniul%2008.pdf>, <http://www.mta.ro/proiecte-in-derulare/>
10. Project No. **283/2014**, “Modular composite structures to protect against the complex effects of improvised explosive devices”, PNII-UEFISCDI, Acronym IEDPROTECT, Initial budget 1.250.000 lei, **2014-2017**,
<https://www.nbce.ro/iedprotect.html>
<http://www.mta.ro/proiecte-in-derulare/>
11. Project No. **297/2014**, “Small, fast convertible ballistic system for lethal and non-lethal actions”, PNII-UEFISCDI, Acronym CONPOSE, Initial budget 1.250.000 lei, **2014-2017**
<http://old.uefiscdi.ro/userfiles/file/PARTENERIATE/Competitie%202013/Buget%202016/Sume/Domeniul%2008.pdf>, <http://www.mta.ro/proiecte-in-derulare/>
12. Project No. **159/20.07.2017**, “Research, design, development and bench testing of a hybrid reactive propulsion system for space launcher applications area, with innovative inhomogeneous fuel and adaptive electrical control of parameters”, Romanian Space Agency, Acronym SPECH, Initial budget 1.894.490 lei, **2017-2020**
https://star.rosa.ro/downloads/C3_2016/STAR_C3_2016_CDI_PropFinantare_final.pdf
13. ANSTI Grant 1999, “Communications Systems with Chaotic Carrier”, 1999 – 2000
14. ORIZONT 2000 Grant, “Study and Software for the Management of Some Subsystems of the STAR Network”, 1999-2000
15. ANSTI Grant 2000, „Secure Communications Based on the Chaotic Dynamic Systems Technology”, 2000-2001
16. ANSTI Grant 2000, “Broadband Communications using Chaotic Dynamic Systems”, 2000 – 2001
17. ANSTI Grant 2001, “The Control of the Chaotic Dynamic Systems”, 2000 – 2001

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