

LISTA DE LUCRĂRI

VLĂDEANU M. CĂLIN

1. LISTA CELOR MAI RELEVANTE LUCRARI ALE CANDIDATULUI

1. **C. Vlădeanu**, C. V. Năstase, A. Marțian, Energy Detection Algorithm for Spectrum Sensing Using Three Consecutive Sensing Events, **IEEE Wireless Comm. Letters**, DOI: 10.1109/LWC.2016.2543723, ISSN: 2162-2337, vol. 5, Issue 3, pp. 284-287, June 2016, **WOS:000379693200015**, Categoria Web of Science: ‘**Telecommunications**’.
2. **C. Vlădeanu**, I. Bănică, B. O. Hogstad, M. Pätzold, C. E. D. Sterian, Combining Super-Orthogonal Space-Frequency Trellis Coding, Constellation Shaping by Shell Mapping, and OFDM for High Data Rate Broadband Mobile Communications, **Transactions on Emerging Telecommunications Technologies (ETT)**, Wiley, DOI: 10.1002/ett.2888, ISSN 2161-3915, vol. 28, Issue 1, January 2017, **WOS:000394422300008**, Categoria Web of Science: ‘**Telecommunications**’.
3. **C. Vlădeanu**, S. El Assad, *Nonlinear Digital Encoders for Data Communications*, Ed. **John Wiley & Sons**, 2014, ISBN 978-1-84821-649-5.
4. **C. Vlădeanu**, *Detecția semnalelor în sistemele DS-CDMA*, Ed. **Printech**, București, România, 2013.
5. **C. Vlădeanu**, *Coding Gain Distance Exact Estimation for Space-Time Trellis Coded Modulation, Circuits, Systems, and Signal Processing*, **Springer**, Birkhäuser Boston, vol. 32, no. 2, pp. 919-929, Apr. 2013 DOI: **10.1007/s00034-012-9467-1**, ISSN **0278-081X**, **WOS:000316284900029**, Categoria Web of Science: ‘**Engineering, Electrical & Electronic**’.
6. **C. Vlădeanu**, Spatial Modulation with Joint Antenna Index and Symbol Index Turbo Trellis Coding, IEEE 11th Int. Symp. on Signals, Circuits and Systems - ISSCS 2013, p. 1-4, Iași, Romania, 11 - 12 Iulie, 2013, DOI: 10.1109/ISSCS.2013.6651174, ISBN 978-1-4673-6141-5, **WOS:000337926700007**.
7. **C. Vlădeanu**, *Turbo Trellis-Coded Spatial Modulation*, IEEE Global Communications Conference - **GLOBECOM 2012**, pp. 4240-4245, Anaheim, CA, USA, Dec. 3-7, 2012, ISSN: 1930-529X, Categoria Web of Science: ‘**Engineering, Electrical & Electronic; Telecommunications**’, **WOS:000322375104064**.
8. **C. Vlădeanu**, S. El Assad, *Punctured 8-PSK Turbo-TCM Transmissions Using Recursive Systematic Convolutional $GF(2^N)$ Encoders*, 19th European Signal Proc. Conf. - **EUSIPCO 2011**, pp. 111-115, Barcelona, Spain, Aug. 29-Sept. 2, 2011, ISSN: 22195491, **SCOPUS**.
9. **C. Vlădeanu**, S. El Assad, J.-C. Carlach, R. Quéré, I. Marghescu, *Recursive $GF(2^N)$ Encoders Using Left-Circulate Function for Optimum PSK-TCM Schemes*, **Elsevier Signal Processing**, vol. 90, no. 9, pp. 2708-2713, Sept., 2010, doi:**10.1016/j.sigpro.2010.03.021**, ISSN **0165-1684**, **WOS:000278566900009**, Categoria Web of Science: ‘**Engineering, Electrical & Electronic**’.
10. **C. Vlădeanu**, S. El Assad, J.-C. Carlach, R. Quéré, *Improved Frey Chaotic Digital Encoder for Trellis-Coded Modulation*, **IEEE Trans. Circuits and Systems – II**, vol. 56, no. 6, pp. 509-513, June, 2009, DOI: **10.1109/TCSII.2009.2020936**, ISSN **1549-7747**, **WOS:000267438500017**, Categoria Web of Science: ‘**Engineering, Electrical & Electronic**’.

II. TEZA DE DOCTORAT (T)

T1. C. Vlădeanu “*Contribuții privind sistemele de comunicații mobile DS-CDMA. Secvențe haotice pentru împrăștiere în sistemele DS-CDMA cu performanțe BER ridicate față de secvențele convenționale*”, UPB, București, 2006, Conducător: Prof. Dr. Ing. Ion Bănică.

III. CARTI PUBLICATE (C)

Cb – Carti de specialitate publicate in edituri recunoscute

1. **C. Vlădeanu**, S. El Assad, “*Nonlinear Digital Encoders for Data Communications*”, 150 pagini, Ed. **John Wiley & Sons**, 2014, ISBN 978-1-84821-649-5.
2. **C. Vlădeanu**, “*Deteția semnalelor în sistemele DS-CDMA*”, 115 pagini, Ed. **Printech**, București, România, 2013, ISBN 978-606-521-977-9, cod CNCSIS 54.
3. **C. Vlădeanu**, “*Secvențe haotice de împrăștiere cu performanțe ridicate pentru sistemul DS-CDMA*”, 234 pagini, Ed. **Printech**, București, România, 2008, ISBN 978-973-718-957-8, cod CNCSIS 54.
4. **C. Vlădeanu**, I. Bănică, S. Popescu, “*Data Communications Systems and Networks*”, 130 pagini, Ed. **Printech**, ISBN 978-973-718-913-4, București, România, 2007, cod CNCSIS 54.

IV. LUCRĂRI DIDACTICE / ÎNDRUMARE DE LABORATOR (I)

1. **C. Vlădeanu**, “*Secvențe de împrăștiere pentru sistemul DS-CDMA*”, 141 pagini, Editura “**ELECTRONICA 2000**”, ISBN 973-86566-5-6, București, România, 2003.
2. I. Bănică, S. Popescu, **C. Vlădeanu**, C. Chisăr, “*Comunicații de date*” - îndrumar de laborator, 95 pagini, Litografia UPB 2002.
3. I. Bănică, S. Popescu, **C. Vlădeanu**, R. Șerban “*Bazele transmisiei informației*” – îndrumar de laborator, 100 pagini, Litografia UPB 1999.
4. I. Bănică, **C. Vlădeanu**, R. Șerban “*Data Communications*” - îndrumar de laborator, 50 pagini, Litografia UPB 1999.

V. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V) – selecții

Ris-ISI – Reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters).

1. **C. Vlădeanu**, I. Bănică, B. O. Hogstad, M. Pätzold, C. E. D. Sterian, Combining Super-Orthogonal Space-Frequency Trellis Coding, Constellation Shaping by Shell Mapping, and OFDM for High Data Rate Broadband Mobile Communications, **Transactions on Emerging Telecommunications Technologies (ETT)**, Wiley, DOI: 10.1002/ett.2888, ISSN 2161-3915, vol. 28, Issue 1, January 2017, **WOS:000394422300008**, Categoria Web of Science: ‘**Telecommunications**’.
2. **C. Vlădeanu**, C. V. Năstase, A. Marțian, Energy Detection Algorithm for Spectrum Sensing Using Three Consecutive Sensing Events, **IEEE Wireless Comm. Letters**, DOI: 10.1109/LWC.2016.2543723, ISSN: 2162-2337, vol. 5, Issue 3, pp. 284-287, June 2016, **WOS:000379693200015**, Categoria Web of Science: ‘**Telecommunications**’.
3. **C. Vlădeanu**, S. El Assad, J.-C. Carlach, R. Quéré, *Improved Frey Chaotic Digital Encoder for Trellis-Coded Modulation*, **IEEE Trans. Circuits and Systems – II**, vol. 56, no. 6, pp. 509-513, June, 2009, DOI: 10.1109/TCSII.2009.2020936, ISSN 1549-7747, **WOS:000267438500017**, Categoria Web of Science: ‘**Engineering, Electrical & Electronic**’.

4. **C. Vlădeanu**, S. El Assad, J.-C. Carlach, R. Quéré, I. Marghescu, *Recursive $GF(2^N)$ Encoders Using Left-Circulate Function for Optimum PSK-TCM Schemes*, **Elsevier Signal Processing**, vol. 90, no. 9, pp. 2708-2713, Sept., 2010, **doi:10.1016/j.sigpro.2010.03.021**, **ISSN 0165-1684**, **WOS:000278566900009**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.
5. **C. Vlădeanu**, *Coding Gain Distance Exact Estimation for Space-Time Trellis Coded Modulation*, **Circuits, Systems, and Signal Processing**, Springer, Birkhäuser Boston, vol. 32, no. 2, pp. 919-929, Apr. 2013 **DOI: 10.1007/s00034-012-9467-1**, **ISSN 0278-081X**, **WOS:000316284900029**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.
6. **C. Vlădeanu**, S. El Assad, *Hybrid Maximum-Likelihood Detector for Trellis Coded Spatial Modulation*, **Revue Roumaine des Sciences Techniques – Serie Electrotechnique et Energetique**, Ed. Academiei Romane, vol. 57, no. 4, pp. 383-393, Bucharest, Romania, 2012, **ISSN 0035-4066**, **WOS:000313936100006**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.
7. **C. Vlădeanu**, S. El Assad, I. Marghescu, A.F. Paun, J.-C. Carlach, R. Quéré, *Recursive $GF(2N)$ Encoders Using Left-Circulate Function for Optimum TCM Schemes*, **Revue Roumaine des Sciences Techniques – Serie Electrotechnique et Energetique**, Ed. Academiei Romane, vol. 55, no. 3, pp. 320-329, Bucharest, Romania, 2010, **ISSN: 0035-4066**, **WOS:000283001600013**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.
8. **C. Vlădeanu**, C. Paleologu, I. Marghescu, *Multilevel Chaos-Based Spreading Sequences for DS-CDMA System Performance Improvement*, **Revue Roumaine des Sciences Techniques – Serie Electrotechnique et Energetique**, Ed. Academiei Romane, vol. 53, no. 3, pp. 319-328, Bucharest, Romania, 2008, **ISSN: 0035-4066**, **WOS:000260440200009**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.
9. **C. Vlădeanu**, C. Paleologu, *Fast convergence adaptive MMSE receiver for asynchronous DS-CDMA systems*, **Revue Roumaine des Sciences Techniques – Serie Electrotechnique et Energetique**, Tome 52, no. 1, pp. 51-60, Jan.-Mar., 2007, **ISSN: 0035-4066**, **WOS:000255345700006**, Categoria Web of Science: 'Engineering, Electrical & Electronic'.

Ris-BDI – Reviste de specialitate de circulatie internationala recunoscute (indexate in alte Baze de Date Internationale – BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

1. Marțian, **C. Vlădeanu**, I. Marcu, I. Marghescu, *Evaluation of Spectrum Occupancy in an Urban Environment in a Cognitive Radio Context*, International Journal on Advances in Telecommunications, IARIA, vol. 3, nr. 3&4, pag. 172-181, Dec. 2010, **ISSN: 1942-2601**, **Google Scholar**.
2. C. Paleologu, **C. Vlădeanu**, S. El Assad, *Fast Convergence Least-Mean-Square Algorithms for MMSE Receivers in DS-CDMA Systems*, International Journal on Advances in Networks and Services, vol. 1, nr. 1, pag. 30-39, 2008, **ISSN: 1942-2644**, **Google Scholar**.
3. A. Awad, S. El Assad, W. Qianxue, C. Vlădeanu, B. Bakhache, *Comparative Study of 1-D Chaotic Generators for Digital Data Encryption*, IAENG Int. Journal of Computer Science, vol. 35, nr. 4, Nov. 2008, **ISSN: 1819-656X**, **Google Scholar**.
4. H. Noura, S. El Assad, **C. Vlădeanu**, *Design of a Fast and Robust Chaos-Based Crypto-System for Image Encryption*, MTA Review, Ed. Academiei Tehnice Militare, vol. XXI, no. 1, pp. 67-80, Mar. 2011, **ISSN 1843-3391**, **CNCSIS (cod 842)**, **Google Scholar**.
5. R. Lucaciu, A. Mihaescu, **C. Vlădeanu**, *OCDMA Indoor Wireless Communications System with Mobile Receiver*, NAUN-International Journal of Communications, vol. 5, no. 1, pp. 18-25, 2011, **ISSN 1998-4480**, **Google Scholar**.
6. A.F. Paun, **C. Vlădeanu**, *Fractionally spaced MMSE turbo equalization*, Telecomunicatii Magazine, year L, no. 2, pp. 80-87, 2007, Romania, **Google Scholar**.
7. H. Balta, M. Kovaci, A. De Baynast, **C. Vlădeanu**, R. I. Lucaciu, *A Very General Family of Turbo-Codes: The Multi-Non-Binary Turbo-Codes*, Scientific Bulletin of University Politehnica of

- Timisoara, Transactions on Electronics and Telecommunications, tom 51(65), fasc. 2, pp. 113-118, Timisoara, Romania, Sept. 2006, **ISSN: 1583-3380, Google Scholar**.
8. A.F. Paun, **C. Vlădeanu**, S. G. Obreja, *Simplifications of the Log-MAP algorithm for turbo decoding and turbo equalization*, Telecomunicatii Magazine, year XXXIII, no. 2, pp. 75-83, Romania, 2006, **Google Scholar**.
 9. S. ElAssad, **C. Vlădeanu**, *Digital Chaotic codec for DS-CDMA communications systems*, Lebanese Science Journal, vol. 7, no. 2, pp. 55-71, Beirut, Lebanon, 2006, **ISSN 1561-3410, Google Scholar**.
 10. **C. Vlădeanu**, M. Raducanu, *Capacity Improvement of DS-CDMA Systems using Chaotic Spreading Sequences*, Buletinul UPB, C series, vol. 66, no. 1/2004, pp. 3-12, Bucharest, Romania, 2004, **ISSN: 2286-3540, INSPEC, Google Scholar**.
 11. **C. Vlădeanu**, R. Lucaciu, D. Andrei, *Optimal Chaotic Asynchronous DS-CDMA Communications over Frequency-Nonselective Rician Fading Channels*, Scientific Bulletin of University Politehnica of Timisoara – Transactions on Electronics and Telecommunications, tom. 49 (63), fasc. 2, pp. 394-397, Timisoara, Romania, Oct. 2004, **ISSN: 1583-3380, Google Scholar**.
 12. M. Raducanu, **C. Vlădeanu**, *Compression of ECG Signals with Adapted Local Trigonometric Transforms*, Buletinul Științific al UPB, Seria C, Electrical Engineering, vol. 65, nr. 1-4, ISSN 1454-234x, pag. 25-32, 2003, România, **ISSN: 2286-3540, INSPEC, Google Scholar**.

Rns – Reviste de specialitate de circulație națională recunoscute de CNCSIS.

1. D. Andrei, **C. Vlădeanu**, A. Serbanescu, *Performance Evaluation of a MA-DCSK System under a Noisy Multiuser Environment*, Scientific Bulletin of University Politehnica of Timisoara – Transactions on Electronics and Telecommunications (Special number dedicated to the Etc2004 Symposium), tom. 49 (63), fasc. 2, pp. 366-369, Timisoara, Romania, Oct. 2004 (Articol în revistă recunoscută CNCSIS categoria B+, cod 252).

Rno – Alte reviste de specialitate de circulație națională.

1. **C. Vlădeanu**, A.F. Paun, C. Paleologu, *Probability Density Analysis for Mean Multiple Access Interference in DS-CDMA Systems*, Telecomunicatii Magazine, year XXXIII, no. 1, pp. 79-89, Romania, 2006.
2. **C. Vlădeanu**, C. Paleologu, M. Raducanu, *Chaotic Periodic Sequences for DS-CDMA Systems*, Telecomunicatii Magazine, year XXX, no. 1, pp. 44-53, 2003, Romania.

Vis-ISI – Volumele unor manifestari stiintifice internationale recunoscute, organizate in tara si strainatate, indexate ISI Thomson Reuters

1. A. Martian, M. Dambeanu, C. Oprea, **C. Vlădeanu** and I. Marghescu, "DVB-T2 radio coverage analysis in Romania," in Proc. 25th Telecommunication Forum (TELFOR2017), Belgrade, Serbia, 2017, pp. 1-4. (ISI Web of Knowledge **WOS:000427782600039**, IEEE Xplore, DOI: 10.1109/TELFOR.2017.8249310).
2. A. Marțian and **C. Vlădeanu**, "On the Compromise between Delay and Performance of the Three-Event Energy Detection Algorithm in Cognitive Radio Systems," 12th IEEE International Symposium on Electronics and Telecommunications (ISETC), Timisoara, ROMANIA, OCT 27-28, 2016, pp. 111-115, ISBN:978-1-5090-3748-3, Categoria Web of Science: '**Engineering, Electrical & Electronic; Telecommunications**', **WOS:000390717800026**.
3. E. I. Dobre, **C. Vlădeanu**, and A. Marțian, "USRP-based Experimental Platform for Energy Detection in Cognitive Radio Systems," IEEE 11th International Conference on Communications (COMM), Bucharest, ROMANIA, JUN 09-11, 2016, pp. 185-188, ISBN: 978-1-4673-8197-0, Categoria Web of Science: '**Engineering, Electrical & Electronic; Telecommunications**', **WOS:000383221900039**.

4. C.V. Nastase, A. Martian, **C. Vlădeanu**, I. Marghescu, An Accurate Average Energy Detection Algorithm for Spectrum Sensing in Cognitive Radio Systems, IEEE 11th International Symposium on Electronics and Telecommunications - ISETC 2014, Timisoara, Romania, Nov. 14-15, 2014, ISBN:978-1-4799-7267-8, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000366633300031**.
5. S. El Assad, **C. Vlădeanu**, Chaos-based Block Ciphers: An Overview, 10th International Conference on Communications (COMM), Bucharest, Romania, May 29-31, 2014, ISBN:978-1-4799-2385-4, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000345844600112**.
6. A. F. Paun, **C. Vlădeanu**, On the outage probability of dual-hop AF relaying over Nakagami-m Fading Channels, 10th International Conference on Communications (COMM), Bucharest, Romania, May 29-31, 2014, ISBN:978-1-4799-2385-4, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000345844600110**.
7. **C. Vlădeanu**, Spatial Modulation with Joint Antenna Index and Symbol Index Turbo Trellis Coding, IEEE 11th Int. Symp. on Signals, Circuits and Systems - ISSCS 2013, p. 1-4, Iași, Romania, 11 - 12 Iulie, 2013, DOI: 10.1109/ISSCS.2013.6651174, ISBN 978-1-4673-6141-5, **WOS:000337926700007**.
8. **C. Vlădeanu**, *Turbo Trellis-Coded Spatial Modulation*, IEEE Global Communications Conference - GLOBECOM 2012, pp. 4240-4245, Anaheim, CA, USA, Dec. 3-7, 2012, ISSN: 1930-529X, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000322375104064**.
9. **C. Vlădeanu**, A. Marțian, A.F. Paun, S. El Assad, *A New ML Detector for Trellis-Coded Spatial Modulation Using Hard and Soft Estimates*, IEEE 10th International Symposium on Electronics and Telecommunications - ISETC 2012, pp. 143-146, Timisoara, Romania, Nov. 15-16, 2012, ISBN:978-1-4673-1176-2, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000318702700033**.
10. **C. Vlădeanu**, R. Lucaciu, A. Mihăescu, *Optical Spatial Modulation for Indoor Wireless Communications in Presence of Inter-Symbol Interference*, IEEE 10th International Symposium on Electronics and Telecommunications - ISETC 2012, pp. 183-186, Timisoara, Romania, Nov. 15-16, 2012, ISBN:978-1-4673-1176-2, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, **WOS:000318702700042**.
11. **C. Vlădeanu**, A. Marțian, S. El Assad, EXIT Charts Analysis for Turbo-TCM Schemes Using Non-Binary RSC Encoders, IEEE 8th Advanced Int. Conf. on Telecomm. AICT 2012, pp. 150-155, Stuttgart, Germany, May 27-June 1, 2012, ISBN: 978-1-61208-199-1, Categoria Web of Science: **'Telecommunications'**, **WOS:000395858500027**.
12. **C. Vlădeanu**, S. El Assad, Punctured 8-PSK Turbo-TCM Transmissions Using Recursive Systematic Convolutional GF(2N) Encoders, 19th European Signal Proc. Conf. - EUSIPCO 2011, pp. 111-115, Barcelone, Spain, Aug. 29-Sept. 2, 2011, ISSN: 2076-1465, ISBN: 978-1-61208-199-1, Categoria Web of Science: **'Engineering, Electrical & Electronic; Imaging Science & Photographic Technology'**, **WOS:000377963100023**.
13. **C. Vlădeanu**, S. El Assad, Designing Optimum 2D-TCM Schemes Using New Systematic Convolutional Encoders over GF(2N), IEEE 10th Int. Symp. on Signals, Circuits and Systems - ISSCS 2011, pp. 479-483, Iași, Romania, 30 June - 1 July, 2011, DOI: 10.1109/ISSCS.2011.5978763, ISBN: 978-145770201-3, **WOS:000337925400119**.
14. **C. Vlădeanu**, S. El Assad, Optimum QAM-TCM Schemes Using Left-Circulate Function over GF(2^N), IEEE 7th Advanced Int. Conf. on Telecomm. AICT 2011, pp. 112-116, St. Maarten, Dutch Antile, Mar. 20-25, 2011, ISBN: 978-161208123-6, Categoria Web of Science: **'Telecommunications'**, **WOS:000394876100020**.
15. **C. Vlădeanu**, A.F. Paun, R. Lucaciu, S. El Assad, *Parallel Turbo-TCM Schemes using Recursive Convolutional GF(2^N) Encoders over Frequency Non-Selective Fading Channel*, IEEE 9th International Symposium on Electronics and Telecommunications - ISETC 2010, pp. 285-288, Timisoara, Romania, Nov. 11-12, 2010, DOI: 10.1109/ISETC.2010.5679305, ISBN:978-1-4244-

- 8458-4, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, WOS:000296356700061.
16. A.F. Paun, C. Vlădeanu, I. Marghescu, S. El Assad, A. Martian, On the QAM Parallel Turbo-TCM Schemes using Recursive Convolutional GF(2N) Encoders, 18th European Signal Proc. Conf. - EUSIPCO 2010, pp. 1414-1418, Aalborg, North Denmark, Aug. 23-27, 2010, ISSN: 2076-1465, WOS:000349999100287.
 17. H. Noura, S. El Assad, C. Vlădeanu, *Design of a Fast and Robust Chaos-Based Crypto-System for Image Encryption*, IEEE 8th International Conf. On Communications - COMM 2010, pp. 423-426, Bucharest, Romania, June 10-12, 2010, ISBN:978-1-4244-6363-3, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, WOS:000299870700100.
 18. R. Lucaciu, A. Mihăescu, C. Vlădeanu, *Dynamic OCDMA Coding for Wireless Communications*, IEEE 8th International Conf. On Communications - COMM 2010, pag. 347-350, Bucuresti, Romania, Iun. 10-12, 2010, ISBN:978-1-4244-6363-3, Categoria Web of Science: **'Engineering, Electrical & Electronic; Telecommunications'**, WOS:000299870700082.
 19. C. Paleologu, J. Benesty, S. Ciochina, C. Vlădeanu, *Practical Variable Step-Size Adaptive Algorithms for Echo Cancellation*, Proc. Int. Conference on Speech Technology and Human-Computer Dialogue (SpeD), pag. 181-188, Constanta, Romania, Mai 18-21, 2009, ISBN:978-973-27-1808-7, Categoria Web of Science: **'Computer Science, Artificial Intelligence; Computer Science, Information Systems; Computer Science, Theory & Methods; Engineering, Electrical & Electronic'**, WOS:000280141300017.
 20. C. Vlădeanu, S. El Assad, J.-C. Carlach, R. Quéré, I. Marghescu, *Optimum PAM-TCM Schemes Using Left-Circulate Function over $GF(2^N)$* , IEEE 9th Int. Symp. on Signals, Circuits and Systems - ISSCS 2009, pp. 267-270, Iași, Romania, July 9-10, 2009, ISBN:978-1-4244-3784-9, Categoria Web of Science: **'Engineering, Electrical & Electronic'**, WOS:000275854200066.
 21. C. Vlădeanu, S. El Assad, J.-C. Carlach, R. Quéré, C. Paleologu, *Chaotic Digital Encoding for 2D Trellis-Coded Modulation*, IEEE 5th Advanced Int. Conf. on Telecomm. AICT 2009, pp. 152-157, Venice, Italy, May 24-28, 2009, ISBN:978-1-4244-3840-2, Categoria Web of Science: **'Computer Science, Hardware & Architecture; Engineering, Electrical & Electronic; Telecommunications'**, WOS:000272076100026.
 22. A. F. Paun, S. Ciochina, C. Vlădeanu, *Low complexity Turbo-Equalization and Iterative Channel Estimation for TDMA Packet Systems*, Proc. of IEEE ISSCS'07, vol. 1, pag. 465-468, Iași, Romania, July 12-13, 2007, ISBN:978-1-4244-0968-6, Categoria Web of Science: **'Computer Science, Software Engineering; Engineering, Electrical & Electronic'**, WOS:000250471700119.
 23. C. Paleologu, C. Vlădeanu, S. Ciochina, A. A. Enescu, *Generalized Normalized Gradient Descent Algorithm with Direct Update of the Step-Size Parameter*, Proc. of IEEE ISSCS'07, vol. 1, Iași, Romania, July 12-13, 2007, pag. 181-184, ISBN:978-1-4244-0968-6, Categoria Web of Science: **'Computer Science, Software Engineering; Engineering, Electrical & Electronic'**, WOS:000250471700046.
 24. C. Vlădeanu, R. Lucaciu, *Second Order Moment Estimation for Multilevel Quantized Tailed Shifts Sequences. Optimising BER for Asynchronous DS-CDMA Systems*, Proc. IEEE ISSCS 2005, vol. 2, pp. 661-664, Iasi, Romania, July 14-15, 2005, ISBN:0-7803-9029-6, Categoria Web of Science: **'Engineering, Electrical & Electronic; Imaging Science & Photographic Technology; Telecommunications'**, WOS:000231532900166.
 25. C. Vlădeanu, I. Banica, S. El Assad, *Periodic Chaotic Spreading Sequences with Better Correlation Properties than Conventional Sequences – BER Performances Analysis*, Proc. of IEEE International Symposium on Signals, Circuits and Systems SCS 2003, Vol. 2, pp. 649-652, Iasi, Romania, July 10-11, 2003, ISBN:0-7803-7979-9, Categoria Web of Science: **'Computer Science, Artificial Intelligence; Engineering, Electrical & Electronic; Telecommunications'**, WOS:000186628100164.

Vis-BDI – Volumele unor manifestari stiintifice internationale recunoscute, organizate in tara si strainatate, indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta (INSPEC)

1. M. J. Ahmad Al Sammarraie, A. Martian and **C. Vlădeanu**, "Adaptive IED Spectrum Sensing Algorithm for Different Duty Cycle Values," 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018, pp. 51-54. doi: 10.1109/ICComm.2018.8430110, **IEEE Explore**.
2. C. Năstase, A. Marțian, **C. Vlădeanu** and I. Marghescu, "Spectrum Sensing Based on Energy Detection Algorithms Using GNU Radio and USRP for Cognitive Radio," 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018, pp. 381-384. doi: 10.1109/ICComm.2018.8430143, **IEEE Explore**.
3. A. Marțian, **C. Vlădeanu**, S. El Assad, Spectral Occupancy Measurements in Rural and Urban Environments: Analysis and Comparison, 9th Advanced Int. Conf. on Telecomm. AICT 2013, pp. 78-83, Roma, Italia, Iun. 23-28, 2013, **ISSN: 2308-4030, Google Scholar**.
4. H. Noura, S. El Assad, **C. Vlădeanu**, D. Caragata, *An Efficient and Secure SPN Cryptosystem Based on Chaotic Control Parameters*, the 6th IEEE Int. Conference on Internet Technology and Secured Transactions – ICITST 2011, pp. 226-231, Abu Dhabi, Dec. 11-14, 2011, ISBN: 978-190832000-1, **SCOPUS, INSPEC Accession Number: 12540104, IEEE**.
5. **C. Vlădeanu**, S. El Assad, *Optimum QAM-TCM Schemes Using Left-Circulate Function over $GF(2^N)$* , IEEE 7th Advanced Int. Conf. on Telecomm. AICT 2011, pp. 112-116, St. Maarten, Dutch Antile, Mar. 20-25, 2011, ISBN: 978-161208123-6, **SCOPUS, Google Scholar**.
6. R. Lucaciu, A. Mihăescu, C. Vlădeanu, *Receiver Mobility Influence on OCDMA Indoor Wireless Communications System Performances*, WSEAS Recent Researches in Circuits, Systems, Electronics, Control & Signal Processing – CSECS 2010, pag. 76-80, Vouliagmeni, Atena, Grecia, Dec. 29-31, 2010, ISBN: 978-960474262-2, **SCOPUS**.
7. A.F. Paun, **C. Vlădeanu**, I. Marghescu, S. El Assad, J.-C. Carlach, R. Quéré, *New Recursive Convolutional $GF(2^N)$ Encoders for Parallel Turbo-TCM Schemes*, IEEE 6th Advanced Int. Conf. on Telecomm. AICT 2010, pp. 182-186, Barcelona, Spain, May 9-15, 2010, DOI: 10.1109/AICT.2010.76, ISBN: 978-1-4244-6748-8, **INSPEC Accession Number: 11374638, IEEE**.
8. **C. Vlădeanu**, S. El Assad, J.-C. Carlach, R. Quéré, I. Marghescu, *Optimum $GF(2^N)$ Encoders Using Left-Circulate Function for PSK-TCM Schemes*, Proc. 17th European Signal Proc. Conf. - EUSIPCO 2009, pp. 1171-1175, Glasgow, Scotland, Aug. 24-28, 2009 (awarded “outstanding paper” – ranked among first 5% evaluation scores), ISSN: 22195491, **SCOPUS**.
9. **C. Vlădeanu**, A. Marțian, *Spectrum Sensing Algorithms Used in Cognitive Radio Systems – An Overview*, in Proc. 7th International Conference COMMUNICATIONS 2008, Cognitive Radio Technology and Reconfigurable Communication Systems Workshop, pag. 21-26, Bucharest, Romania, June 5-7, 2008, **Google Scholar**.
10. C. Paleologu, S. Ciochina, A. A. Enescu, C. Vlădeanu, *Gradient Adaptive Lattice Algorithm Suitable for Fixed Point Implementation*, Proc. of IEEE ICDT'08, București, Romania, 29 Iunie - 5 Iulie, 2008, pag. 41-46, DOI: 10.1109/ICDT.2008.18, ISBN: 978-0-7695-3188-5, **INSPEC Accession Number: 10104725, IEEE**.
11. **C. Vlădeanu**, C. Paleologu, *Optimum multilevel chaotic sequences for asynchronous DS-CDMA systems over Rician selective fading channel*, EUSIPCO 2007, pp. 474-478, Poznan, Polonia, Sept. 3-9, 2007, ISSN: 22195491 ISBN: 978-839213402-2, **SCOPUS, Google Scholar**.
12. C. Paleologu, **C. Vlădeanu**, Ioan Bacalu, *Gradient Adaptive Lattice Algorithm for MMSE Receivers in DS-CDMA Systems*, Proc. of IEEE ICSNC 2007, pp. 27-32, Cap Esterel, France, Aug. 25-31, 2007, DOI: 10.1109/ICSNC.2007.37, ISBN: 0-7695-2938-0, **INSPEC Accession Number: 9876805, IEEE**.

13. C. Paleologu, **C. Vlădeanu**, *On the Behavior of LMS Adaptive Algorithm in MMSE Receivers for DS-CDMA Systems*, Proc. of IEEE ICCGI 2007, Guadeloupe, 4-9 Martie, 2007 (IEEE Computer Society) - ICCGI 2007 Paper Award, DOI: 10.1109/ICCGI.2007.42, ISBN: 0-7695-2798-1, **INSPEC Accession Number:** 10312287, IEEE.
14. **C. Vlădeanu**, C. Paleologu, *MMSE Single User Iterative Receiver for Asynchronous DS-CDMA Systems*, Proc. of IEEE International Conference COMMUNICATIONS 2006, pp. 227-230, Bucharest, Romania, June 8-10, 2006, **Google Scholar**.
15. C. Paleologu, **C. Vlădeanu**, A. A. Enescu, *Lattice MMSE single user receiver for asynchronous DS-CDMA systems*, Scientific Bulletin of University Politehnica of Timisoara, Transactions on Electronics and Telecommunications, (Special number dedicated to the Etc2006 Symposium), tom 51(65), fasc. 2, pp. 97-102, Timisoara, Romania, Sept. 2006, **ISSN: 1583-3380, Google Scholar**.
16. **C. Vlădeanu**, *Optimum Chaotic Quantized Sequences for Asynchronous DS-CDMA System*, Proc. 13th European Signal Processing Conference EUSIPCO2005, vol. II, pp. 336-339, Antalya, Turkey, Sept. 4-8, 2005, ISBN: 1604238216;978-160423821-1, **SCOPUS**.
17. I. Banica, **C. Vlădeanu**, *Performance of Iterative Multistage Detectors for DS-CDMA Systems*, Proc. of IEEE ICT2001, Vol. 3, pp. 35-39, Bucharest, Romania, June 4-7, 2001, **Google Scholar**.

Vi – Volumele unor manifestari stiintifice internationale recunoscute, organizate in tara si strainatate

1. **C. Vlădeanu**, A. F. Păun, S. El Assad, D. Garagata, *Cross-correlation matrix exact estimation for the asynchronous passband DS-CDMA system*, Proc. of IEEE International Conference IEEE - COMM 2008, pp. 257-260, Bucharest, Romania, June 5-7, 2008.
2. **A. Marțian**, **C. Vlădeanu**, **I. Marghescu**, "RF Transceiver Architecture in Cognitive Radio Systems", in Proc. 7th International Conference COMMUNICATIONS 2008, Cognitive Radio Technology and Reconfigurable Communication Systems Workshop, Bucharest, June 2008, pp. 17-20.
3. A.F. Paun, **C. Vlădeanu**, *On the iterative MMSE-DFE Equalizer for TDMA Systems*, Proc. of IEEE International Conference COMMUNICATIONS 2006, pp. 239-242, Bucharest, Romania, June 8-10, 2006.
4. **C. Vlădeanu**, S. ElAssad, *Optimum Chaotic Quantized Sequences for Chip-Synchronous DS-CDMA System*, Proc. Of MCSEAI2006, Agadir, Maroc, 7-9 Decembrie, 2006.
5. **C. Vlădeanu**, D. Andrei, *BER Performance Evaluation for Asynchronous DS-CDMA System using Optimal Chaotic Spreading Sequences*, Proc. of IEEE International Conference COMMUNICATIONS 2004, vol. 1, pp. 153-159, Bucharest, Romania, June 3-5, 2004.
6. D. Andrei, **C. Vlădeanu**, *Multiple Access DCSK System*, Proc. of IEEE International Conference COMMUNICATIONS 2004, vol. 1, pp. 159-165, Bucharest, Romania, June 3-5, 2004.
7. S. El Assad, **C. Vlădeanu**, S. Toutain, *Conception d'un Modem QPSK Coherent a Etalement du Spectre par le Chaos*, Troisiemes Journees d'Optique et de Traitement de l'Information, Proceedings, pp. 148-155, Kenitra, Morocco, Oct. 18-19, 2002.
8. **C. Vlădeanu**, *Computational Considerations on Performance Estimation for DS-CDMA Systems*, Proc. of IEEE ICT2001, vol. 1, pp. 573-577, Bucharest, Romania, June 4-7, 2001.
9. I. Banica, **C. Vlădeanu**, *On the Capacity of Cellular CDMA Systems*, Proc. of International Conference COMMUNICATIONS 2000, pp. 420-425, Bucharest, Romania, Dec. 7-9, 2000.

Vn – Volumele unor manifestari stiintifice nationale

1. **C. Vlădeanu**, C. Paleologu, *Fast Adaptive MMSE-PIC Multiple User Detection Receiver for DS-CDMA Systems*, Proc. of Int. Workshop "Services and software architectures, infrastructures and communications engineering for enhancing EU citizen's quality of life" – Romanian Academy, pp. 132-139, Bucharest, Romania, May 18, 2007.

VI. CONTRACTE SI RAPOARTE STIINTIFICE (P, F)

P - Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie, pe baza de contract/grant, in tara/strainatate (Pn – nationale)

În calitate de director de contract de cercetare

1. *“Noi scheme de codare convolutionala de complexitate redusa operand in campuri Galois de ordin superior pentru corectia erorilor de canal”*, Grant PN-II-RU-TE-2009-1 NR. 18/12.08.2010/2010-2013.
2. *“Noi receptoare cu detectie multi-utilizator de tip turbo pentru sistemele de acces multiplu cu diviziune in cod”*, Grant CNCSIS Tip AT, Contract/2007-2008, tema 14.
3. *“Analiza de performanță a sistemului de comunicații mobile DS-CDMA”*, Grant CNCSIS Tip Td, 2004-2005, faza 1 (*“Secvențe de împrăștiere pentru sistemul DS-CDMA”* - 2004) și faza 2 (*“Analiza de performante BER a sistemului DS-CDMA cu secvente haotice”* – 2005).

În calitate de membru al echipei de cercetare

1. *“Advanced antennas for space communications (ADANSPACE)”*, proiect de cercetare CDI nr. 240-2013 finanțat de Agenția Spațială Română (ROSA) (2013-2015), director Mihai Banciu.
2. *”Contribuții la teoria și implementarea metodelor de reducere adaptivă a zgomotului de fond în sistemele multi-canal de comunicații de voce”*, Contract UEFISCSU, PN-II-PCE-Idei, 2007 - 2011 (3 ani), responsabil Ș.I. dr. ing. C. Paleologu.
3. *”Tehnologia Radio Cognitiv și utilizarea eficientă a spectrului RF”*, Contract UEFISCSU, PN-II-PCE-Idei, 2007-2011, responsabil Prof. dr. ing. I. Marghescu.
4. *”Soluții de creștere a performanțelor compensatoarelor de ecou acustic multi-canal. Aplicații în sistemele de teleconferință”*, Grant CNCSIS, tip AT, 2007-2008, responsabil Ș.I. dr. ing. C. Paleologu.
5. *“Noi receptoare adaptive pentru sistemele de comunicații cu acces multiplu cu diviziune în cod”*, contract tip CEEX-ET, MEC-UEFISCSU, 2006-2008, responsabil Ș.I. dr. ing. C. Paleologu.
6. *“Contribuții la creșterea performanțelor compensatoarelor de ecou acustic utilizate în sistemele de comunicații cu mâini libere (hands-free)”*, contract tip CEEX-ET, MEC-UEFISCSU, 2006-2008, responsabil Ș.I. dr. ing. C. Paleologu.
7. *”Noi algoritmi adaptivi adecvați implementării în precizie finită. Aplicații în rețelele de comunicații”*, Grant CNCSIS, tip AT, 2004-2005, faza 1 (*“O nouă familie de algoritmi adaptivi bazați pe optimizarea în sensul celor mai mici pătrate, adecvați implementărilor în precizie finită”* - 2004) și faza 2 (*“Proiectarea unui compensator adaptiv de ecou cu performanțe superioare, bazat pe un algoritm de tip LS”* - 2005), responsabil Ș.I. dr. ing. C. Paleologu.
8. *“Sisteme multimedia pentru accesul deschis la informația științifică”*, contract de cercetare UPB-ITC-MEC, 2000-2002, faza 1 (*“Studiu privind particularitățile sistemelor de comunicații multimedia”* - 2000), faza 2 (*“Definirea parametrilor de calitate pentru sisteme multimedia”* - 2000), faza 3 (*“Studiu privind sistemele de acces în rețeaua de comunicații multimedia: propuneri de noi soluții”* - 2001) și faza 4 (*“Algoritmi adaptivi rapizi pentru egalizarea canalelor și suprimarea interferențelor în comunicațiile multimedia”* - 2002), responsabil Prof. dr. ing. Ad. Mateescu.
9. *“Studiu privind integrarea infrastructurii actuale de comunicații și de prelucrare a datelor în ansamblul european al tehnologiilor informaționale”*, contract de cercetare UPB-ANSTI, nr.836 /A6, fază unică (2000) intitulată: *“Metode și interfețe de acces a rețelei de telecomunicații la rețeaua de comunicații globale”*, responsabil Prof. dr. ing. Ad. Mateescu.