

# LISTA LUCRĂRILOR

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## Lista lucrărilor cele mai relevante

1. **Maria Kovaci**, Horia Balta, Miranda Naornita, Maria Balta, "QPP Interleavers Selection Based on Convergence of Iterative Turbo-Decoding Process at Small Block Size", *IEEE International Symposium on Signals, Circuits and Systems ISSCS 2011*, June 30 – July 1, 2011, Iași, pag. 399-402, ISBN: 978-1-61284-943-0, va fi cotate ISI;
2. **Maria Kovaci**, Horia Balta, "Comparing the Performance of Duo-Binary Turbo Codes on Rayleigh Channel", *12<sup>th</sup> IEEE International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010*, 20-22 May, Brașov, 2010, pag. 953-956, ISBN: 978-973-131-080-0, este cotate ISI;
3. **Maria Kovaci**, Balta Horia, "Comparing the Performance of Duo-Binary Turbo Codes on Rice Flat Fading Channel", *9<sup>th</sup> IEEE International Symposium of Electronics and Telecommunications, ISETC 2010*, 11-12 November, Timișoara, 2010, pag. 217-220, ISBN: 978-1-4244-8458-4, este în baza de date internațională IEEE Explore;
4. **Maria Kovaci**, Horia Balta, Miranda Naornita, "On Using Turbo Codes Over Rice Flat Fading Channels", *IEEE International Symposium on Signals, Circuits and Systems ISSCS 2009*, 09 – 10 July, 2009, Iași, pag. 461-464, ISBN: 978-1-4244-3784-9, este cotate ISI;
5. **Maria Kovaci**, Horia Balta, Alexandre de Baynast, Miranda Naornita, "Performance Comparison of Punctured Turbo Codes and Multi Binary Turbo Codes", *IEEE International Symposium on Signals, Circuits and Systems ISSCS 2007*, 12 – 13 July, 2007, Iași, pag. 485-488, ISBN: 1-4244-06968-3, este cotate ISI;
6. **Maria Kovaci**, Alexandre de Baynast, Horia Balta, Miranda Naornita, "Performance of Multi Binary Turbo-Codes on Nakagami Flat Fading Channels", *Buletinul științific al UPT, Seria Electronică și Telecomunicații*, Tom 51 (65), Fascicola 2, 2006 Timișoara, pag. 140-145, ISSN 1583-3380;
7. **Maria Kovaci**, Horia Balta, Miranda Naornita, "The Performances of Interleavers used in Turbo Codes", *IEEE International Symposium on Signals, Circuits and Systems ISSCS 2005*, 14 – 15 July, 2005, Iași, pag. 363-366, ISBN: 0-7803-9029-6, este cotate ISI.

## Teza de doctorat

1. **Kovaci Maria**, „Contribuții la analiza și îmbunătățirea performanțelor turbo codurilor în canale cu fading plat”, Universitatea "Politehnica" din Timișoara, 2009.

## Alte articole

### I. Journal Articles

1. H. Balta, A. De Baynast, **M. Kovaci**, "On the Encoding of the Multi-Non-Binary Convolutional Codes", *Buletinul Stiintific al Universitatii „Politehnica” Timisoara, Seria El. si Telecom.*, Tom 53-67, Fasc. 2, 2008, pag.183-188;
2. M. Oltean, **M. Kovaci**, H. Balta, A. Campeanu, "Multi Binary Turbo Coded WOFDM Performance in Flat Rayleigh Fading Channels", *Acta Technica Napocensis – El. and Telecomm.*, Vol. 29, Nr.3/2008, ISSN: 1221-6542, pag.11-16;

3. H. Balta, D. Bosneagu, **M. Kovaci**, M. Oltean, "A Study of the Permutation Schemes Used in the Mobile WIMAX", Acta Technica Napocensis – El. and Telecomm., Volum 29, Nr.3/2008, ISSN: 1221-6542, pag.17-20;
4. H. Balta, **M. Kovaci**, A. De Baynast, C. Vladeanu, R. Lucaciu, "A Very General Family of Turbo-Codes: The Multi-Non-Binary Turbo-Codes", Bul. Stiintific al Univ. „Politehnica” Timisoara, Seria El. si Telecom.Tom 51-65, Fasc. 2, 2006, pag.113-118;
5. H. Balta, C. Douillard, **M. Kovaci**, "The Minimum Likelihood APP Based Early Stopping Criterion for Multi-Binary Turbo Codes", Bul. St. al Univ. „Politehnica” Timisoara, Seria El. si Telecom, Tom 51-65, Fasc. 2, 2006, pag.199-203;
6. **M. Kovaci**, H. Balta, M. Nafornta, "Performance of Multi Binary Turbo Codes on Rayleigh Flat Fading Transmission Channels", Analele Univ. din Oradea, Fasc. Electrotehnica, Sectiunea Electronica, 2006, pag. 64-67;
7. H. Balta, **M. Kovaci**, M. Nafornta, "Performance of Multi Binary Turbo Codes on Rice Flat Fading Channels", Analele Universitatii din Oradea, Fascicola Electrotehnica, Sectiunea Electronica, 2006, pag. 17-20;
8. H. Balta, **M. Kovaci**, M. Nafornta, "A New Method for the Simulation of the Nakagami Flat Fading (Radio) Transmission Channels", Analele Univ. din Oradea, Fasc. Electrotehnica, Sectiunea Electronica, 2005, pag. 21-24;
9. H. Balta, **M. Kovaci**, "A study on turbo decoding iterative algorithms", Buletinul Stiintific al Universitatii „Politehnica ”Timisoara, Seria Electronica si Telecomunicatii, Tom 49-63, Fascicola 2, 2004, pag. 33-37;
10. H. Balta, **M. Kovaci**, "The Performance of Convolutional Codes used in Turbo Codes", Buletinul Stiintific al Universitatii „Politehnica” Timisoara, Seria El. si Telecom., Tom 49-63, Fascicola 2, 2004, pag.38-43;
11. H. Balta, **M. Kovaci**, "A Comparasion Between Weight Spectrum of Different Convolutional Code Types", Analele Universitatii din Oradea, Fascicola Electrotehnica, Sectiunea Electronica, 2004, pag. 174-179;
12. **M. Kovaci**, A. Isar, "Denoising Signals Corrupted by Speckle Noise", Buletinul Stiintific al Universitatii „Politehnica” Timisoara, Seria El. si Telecom., Tom 47-61, Fascicola 1-2, 2002, pag.182-185.

## II. Conference Articles

1. H. Balta, A. Isar, **M. Kovaci**, M. Nafornta, M. Balta, "Double-Binary RSC Convolutional Codes Selection Based on Convergence of Iterative Turbo-Decoding Process", *IEEE International Symposium on Signals, Circuits and Systems ISSCS 2011*, June 30 – July 1, 2011, Iasi, pag. 395-398, ISBN: 978-1-61284-943-0, va fi cotatea ISI;
2. J. Mountassir, H. Balta, M. Oltean, **M. Kovaci**, A. Isar, "A Physical Layer Simulator for WiMAX in Rayleigh Fading Channel", *6th IEEE International Symposium on Applied Computational Intelligence and Informatics*, Timisoara, Romania, May 19–21, 2011, pag. 281-284, ISBN: 978-1-4244-9107-0, va fi cotatea ISI;
3. H. Balta, **M. Kovaci**, M. Nafornta, M. Balta, "Multi-Binary Turbo-Code Design based on Convergence of Iterative Turbo-Decoding Process", the 5th European Conference on Circuits and Systems for Communications (ECCSC'10), Belgrade, Serbia, November, 23-25, 2010, pag. 240-243;
4. M. Oltean, **M. Kovaci**, J. Mountassir, A. Isar, P. Lazar, "A physical layer simulator for WiMAX", 9th IEEE International Symposium of Electronics and Telecommunications, ISETC 2010, Timisoara, Romania, November, 11-12, 2010, pag. 133-136;
5. I. E. Andor, L. Ardelean, H. Balta, **M. Kovaci**, M. Oltean, A. Isar, "A Study of the Permutation Schemes Used in Mobile Wireless Communications", 9th IEEE International Symposium of Electronics and Telecommunications, ISETC 2010, Timisoara, Romania, November, 11-12, 2010, pag. 169-172;

6. M. L. Balta , M. M. Nafornta, **M. Kovaci**, H. Balta, "Designing Convolutional Codes used in Multi-Binary Turbo Codes", The 8th Int. Conf. On Communications – COMM2010, 10-12 June 2010, pag. 195-198;
7. C. Nafornta, A. Isar, **M. Kovaci**, "Increasing Watermarking Robustness using Turbo Codes", 6th IEEE Int. Symposium on Intelligent Signal Processing, WISP 2009, Budapest, Hungary, August, 26-28, 2009, pag. 113-118;
8. **M. Kovaci**, H. Balta, "On Using Turbo Coding over Rayleigh Flat Fading Channels ", The 4th International Conf. on Engineering Technologies-ICET 2009, Novi Sad, April 28-30, 2009, pag. 149-151;
9. H. Balta, **M. Kovaci**, C. Botiz, C. Poenaru, "Bit Decoding Versus Symbol Decoding in Multi-Binary Turbo Decoders", The 4th Int.Conf. on Eng.Technologies-ICET 2009, Novi Sad, April 28-30, 2009, pag. 145-147;
10. M. Oltean, **M. Kovaci**, H. Balta, A. Campeanu, "Multi Binary Turbo-Coded Wavelet OFDM in Flat Fading Channels", Workshop on Signal Proc. Syst. for Wireless Comm. (SPSWC'08), 2-3 July 2008, Cluj Napoca;
11. D. Bosneagu, H. Balta, **M. Kovaci**, M. Oltean, "Permutations in Communications", Workshop on Signal Processing Systems for Wireless Communications (SPSWC'08), 2-3 July 2008, Cluj Napoca;
12. H. Balta, **M. Kovaci**, L. Trifina, "A Reduced Memory MAP Algorithm for Turbo Codes ", Proceedings of the 8th International Conference on Development and Application Systems, Suceava, 25-27 May, 2006, pag. 164-168;
13. H. Balta, **M. Kovaci**, "The Turbo-codes Performances in the (Radio) Rice Flat Fading Channels", The Military Technical Academy, The 31st, internationally attended scientific conference "Modern Technologies in the XXI Century", Bucharest 03-04 November, 2005, pag. 10.1-10.6.
14. H. Balta, **M. Kovaci**, A. De Baynast, "Performance of Turbo-Codes on Nakagami Flat Fading (Radio) Transmission Channels",IEEE International Signals, Systems and Computers, Conference Record of the Thirty-Ninth Asilomar Conference Pacific Grove, California, on October 28 - November 1, 2005, pag. 606-610.
15. H. Balta, **M. Kovaci**, M. Nafornta "A Study on Turbo Coding Systems with  $\pi/4$  Shifted DQPSK Modulation", IEEE International Symposium SCS, ISSCS'2005, Iasi, July, 14-15, 2005, pag. 367-370.
16. **M. Kovaci**, H. Balta, "Non-Binary Turbo Codes Interleavers ", The 36th International Scientific Symposium of the Military Equipment & Technologies Research Agency, Bucharest, May 26-27, 2005, pag. 208-213.
17. H. Balta, **M. Kovaci**, "A Study on Non-Binary Turbo Codes", The 36th International Scientific Symposium of the Military Equipment & Technologies Research Agency, Bucharest, May 26-27, 2005, pag. 214-219.
18. H. Balta, **M. Kovaci**, "Turbo-Coduri: Constructie, performante, perspective", Academia fortelor terestre "Nicolae Balcescu" Sibiu a VIII-a Sesiune de Comunicari Stiintifice, 11 iunie, 2004, pag. 27-34.
19. H. Balta, **M. Kovaci**, "Studiu asupra preciziei curbelor BER construite prin simularea functionarii turbo-codurilor", Acad. fortelor terestre "Nicolae Balcescu" Sibiu a VIII-a Ses. de Com. St., 11 iunie, 2004, pag. 35-42.
20. **M. Kovaci**, D. Isar, A. Isar, "Denoising SAR Images", IEEE International Symposium SCS'2003, Iasi, July, 10-11, 2003, pag. 281-284.

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