

## СПИСЪК НА ПУБЛИКАЦИИТЕ ПО ДИСЕРТАЦИЯТА

на

проф. д-р Цонка Стефанова Байчева

1. T. Baicheva, S. Dodunekov and P. Kazakov, On the cyclic redundancy-check codes with 8-bit redundancy, *Computer Communications*, vol. 21 (1998) 1030–1033. **IF 0.167**
2. T. Baicheva, Binary and ternary linear codes which are good and proper for error correction, *Proc of the International Workshop on Algebraic and Combinatorial Coding Theory*, Bansko, Bulgaria (2000) 55–60.
3. T. Baicheva, S. Dodunekov and P. Kazakov, On the Undetected Error Probability Performance of Cyclic Redundancy-Check Codes of 16-bit Redundancy, *IEE Proc. Communications*, vol. 147, No. 5 (2000) 253–256. **IF 0.226**  
T. Baicheva, S. Dodunekov and P. Kazakov, On the cyclic redundancy-check codes with 16-bit redundancy, *Proc. of the International Workshop on Algebraic and Combinatorial Coding Theory*, Pskov, Russia (1998) 17–21.
4. T. Baicheva, On the covering radius of ternary negacyclic codes with length up to 26, *IEEE Trans. on Inform. Theory*, vol. 47, No. 1 (2001) 413–416. **IF 2.077**  
T. Baicheva, On the covering radius of ternary negacyclic codes with length up to 26, *Proc of IEEE Intern. Symposium of Inform. Theory*, Sorrento, Italy (2000) p. 392.
5. T. Baicheva, S. Dodunekov and R. Kötter, On the Performance of the Ternary [13,7,5] Quadratic-Residue Codes, *IEEE Trans. Inform. Theory*, vol. 48, No. 2 (2002) 562–564. **IF 2.045**  
T. Baicheva, S. Dodunekov and R. Kötter, On the Performance of the Ternary [13,7,5] Quadratic-Residue Codes, *Proc of the International Workshop on Algebraic and Combinatorial Coding Theory*, Pskov, Russia (1998) 93–97.
6. T. Baicheva, The Newton radius of some binary and ternary cyclic codes, *Proc of the International Workshop on Algebraic and Combinatorial Coding Theory*, Tsarskoe Selo, Russia (2002) 18–21.
7. T. Baicheva and V. Varek, On the least covering radius of binary linear codes with small lengths, *IEEE Trans. On Inform. Theory*, vol. 49, No. 3 (2003) 738–740. **IF 2.245**  
T. Baicheva and V. Varek, On the least covering radius of binary linear codes with small lengths, *Proc. of the EuroWorkshop on Optimal Codes and related topics*, Sunny Beach, Bulgaria (2001) 13–18.
8. T. Baicheva and I. Boyukliev, On the ternary projective codes with dimensions 4 and 5, *Proc of the International Workshop on Algebraic and Combinatorial Coding Theory*, Kranevo, Bulgaria (2004) 34–39.
9. T. Baicheva and I. Gancheva, Computer search for ternary cyclic and negacyclic LUEP codes of lengths up to 26, *Mathematica Balkanica*, New Series vol. 18 (2004) 79–80.

10. T. Baicheva, I. Bouyukliev, S. Dodunekov and W. Willems, Teaching linear codes, *Mathematica Balkanica*, New Series vol. 19 (2005) 3–16.
11. E. Velikova and T. Baicheva, On the computation of the weight distribution of the cosets of cyclic codes, *Annuaire de L'Université de Sofia 'St. Kl. Ohridski'*, vol. 97 (2005) 109–114.
12. T. Baicheva and F. Sallam, On the error detection performance of some CRC codes, *Proc. of the workshop 'Mathematics, Informatics and Computer Sciences'*, Veliko Tarnovo, Bulgaria (2006) 107–110.
13. T. Baicheva and F. Sallam, Error control performance of CRC codes with up to 8 bit redundancy, *Proc. of the International Workshop on Algebraic and Combinatorial Coding Theory*, Zvenigorod, Russia (2006) 11–14.
14. T. Baicheva, On the error correcting performance of some binary and ternary linear codes, *Serdica, Journal of Computing*, vol. 1 (2007) 157–170.
15. T. Baicheva and F. Salam, CRC codes for error control, *Mathematica Balkanica*, New series vol. 21, Fasc. 3-4 (2007) 377–388.
16. T. Baicheva, I. Bouyukliev, S. Dodunekov, and V. Fack, Binary and Ternary Quasi-perfect Codes with Small Dimensions, *IEEE Trans. on Inform. Theory*, vol. 54, issue 9 (2008) 4335–4339. **IF 3.793**  
T. Baicheva, I. Bouyukliev, Stefan Dodunekov and V. Fack, Binary and ternary quasi-perfect codes with small dimensions, *Proc. of the International Workshop Optimal Codes and Related Topics*, White Lagoon, Bulgaria (2007) 13–18.
17. T. Baicheva, Determination of the best CRC codes with up to 10-bit redundancy, *IEEE Trans on Communic.*, vol. 56, issue 8 (2008) 1214 –1220. **IF 2.07**
18. T. Baicheva, Linear codes of good error control performance, *Enhancing cryptographic primitives with techniques from error correcting codes*, IOS Press (2009) 250–259.
19. T. Baicheva and I. Bouyukliev, On the least covering radius of the binary linear codes of dimension 6, *Advances in Mathematics of Communications*, vol. 4, No 3 (2010) 399–403. **IF 0.544**  
T. Baicheva and I. Bouyukliev, On the least covering radius of the binary linear codes of dimension 6, *Proc. of the International Workshop on Algebraic and Combinatorial Coding Theory*, Pamporovo, Bulgaria (2008) 7–12.
20. T. Baicheva, All binary linear codes of lengths up to 18 or redundancy up to 10 are normal, *Advances in Mathematics of Communications*, vol. 5, No 4 (2011) 681–686. **IF 0.462**  
T. Baicheva, Normality of some binary linear codes, *Proc. of the International Workshop Optimal Codes and Related Topics*, Varna, Bulgaria (2009) 5–10.
21. T. Baicheva and S. Topalova, Optimal  $(v,4,2,1)$  optical orthogonal codes with small parameters, *Journal of Combinatorial Designs*, vol. 20 (2) (2012) 142–160. **IF 0.662**

22. T. Baicheva and S. Topalova, Optimal optical orthogonal codes of weight 5 and small lengths, *International Conference on Applications of Computer Algebra*, Sofia, Bulgaria (2012).
23. T. Baicheva and S. Topalova, Optimal  $(v, 3, 1)$  binary cyclically permutable constant weight codes with small  $v$ , *Proc. of the International Workshop on Algebraic and Combinatorial Coding Theory*, Pomorie, Bulgaria (2012) 33–38.
24. T. Baicheva and S. Topalova, Classification results for  $(v, k, 1)$  cyclic difference families with small parameters, *Mathematics of Distances and Applications*, M. Deza, M. Petitjean, K. Markov (eds.), ITHEA, Sofia (2012) 24–30.
25. T. Baicheva and S. Topalova, Optimal  $(v, 5, 2, 1)$  optical orthogonal codes of small  $v$ , *Applical Algebra in Engeneering Communication and Computing*, vol. 24, No 3-4 (2013) 165–177. **IF 0.561**