

## Списък на публикациите

на

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по дисертационния труд на тема

### "Оптимизация и паралелизация на алгоритми, свързани с теория на кодирането"

Резултатите, представени в дисертацията, са публикувани или изпратени за рецензиране в следните статии:

- [P1] Pashinska M., Bouyukliev I., Utilizing AVX Instruction Set for Optimizing Algorithms for Weight Characteristics of Binary Linear Code. Science Series "Innovative STEM Education"IMI-BAS, 2021, pp. 151-156, ISSN:2683-1333
- [P2] Pashinska-Gadzheva, M., Build Systems for Generating Independent Software. Science Series "Innovative STEM Education 4, IMI-BAS, 2022, pp. 62-68, ISSN:2683-1333
- [P3] Pashinska-Gadzheva, M. Comparison of compiler efficiency with SSE and AVX instructions. International Conference Automatics and Informatics (ICAI), Varna, Bulgaria, 2022, pp. 56-59, Electronic ISBN:978-1-6654-7625-6, doi: 10.1109/ICAI55857.2022.9960080
- [P4] Bouyukliev, I.; Bouyuklieva, S.; Pashinska-Gadzheva, M. On Some Families of Codes Related to the Even Linear Codes Meeting the Grey–Rankin Bound. Mathematics 2022, 10, 4588, ISSN: 2227-7390, **IF:2.2 SJR: 0.592 Q1**, <https://doi.org/10.3390/math10234588>
- [P5] Pashinska-Gadzheva, M., Bouyukliev, I. About Methods of Vector Addition over Finite Fields Using Extended Vector Registers. In: Lirkov, I., Margenov, S. (eds) Large-Scale Scientific Computations. LSSC 2023. Lecture Notes in Computer Science, Springer, Cham. 2024, vol 13952. pp 427–434, Electronic ISSN: 1611-3349, Print ISSN: 0302-9743, **SJR: 0.606 (2023)**, [https://doi.org/10.1007/978-3-031-56208-2\\_44](https://doi.org/10.1007/978-3-031-56208-2_44)

- [P6] Pashinska-Gadzheva, M., Bouyukliev, I., LinCodeWeightInv: Library for Computing theWeight Distribution of Linear Codes Over Finite Fields, submitted for review after second revision to ACM Transactions on Mathematical Software