

## LIST OF PUBLICATIONS

by Vladimir D. Tonchev

\* **Books:** [101], [102], [103], [125].

\*\* **Book Chapters:** [11], [53], [59].

\*\*\* **Volumes edited:** [36], [60].

### 2009

1. Vladimir D. Tonchev, Generalized weighing matrices and self-orthogonal codes, *Discrete Math.* **309** (2009), 2697-4699.
2. D. Jungnickel and V.D. Tonchev, Polarities, quasi-symmetric designs, and Hamada's conjecture, *Designs, Codes and Cryptography*, **51** (2009), 131-140.

### 2008

3. V. D. Tonchev, Quantum Codes from Caps, *Discrete Math* **308** (2008), 6368-6372.
4. V.D. Tonchev Steiner systems for two-stage disjunctive testing, *Journal of Combinatorial Optimization*, **15** (2008), 1-6.
5. C. Sarami and V.D. Tonchev, Cyclic quasi-symmetric designs and self-orthogonal codes of length 63, *J. Stat. Planning and Inference*, **138** (2008), 80-85.
6. V.C. Mavron , T.P. McDonough, and V.D. Tonchev. On affine designs and Hadamard designs with line spreads, *Discrete Math*, **308** (2008), 2742-2750.
7. Y. Mutoh and V.D. Tonchev, Difference systems of sets and cyclotomy, *Discrete Math.* **308** (2008), 2959-2969.

### 2007

8. V.D. Tonchev, A class of  $2-(3^n 7, 3^{n-1} 7, (3^{n-1} 7 - 1)/2)$  designs, *J. Combinatorial Designs*, **15** (2007), 460-464.
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11. \*\*V.D. Tonchev, *Codes*, Chaper VII.1 in: *Handbook of Combinatorial Designs*, Second Edition, C.J. Colbourn, J.H. Dinitz eds., Chapman &Hall/CRC, Boca Raton 2007, pp. 677-702.

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13. V. D. Tonchev, H. Wang, Optimal Difference Systems of Sets with Multipliers, *Lecture Notes in Computer Science* **3967** (2006), 612-618.
14. R. Fuji-Hara, A. Munemasa and V.D. Tonchev, Hyperlane partitions and difference systems of sets, *J. Combin. Theory, Ser. A* **113** (2006), 1689-1698.

## 2005

15. V.D. Tonchev, Partitions of difference sets and code synchronization, *Finite Fields Appl.*, **11** (2005), 601-621.
16. V.D. Tonchev, Affine designs and linear orthogonal arrays, *Discrete Math.* **294** (2005) 219-222.
17. M. Harada, C. Lam and V.D. Tonchev, Symmetric  $(4, 4)$ -nets and generalized Hadamard matrices over groups of order 4, *Designs, Codes and Cryptography* **34** (2005), 71-87.
18. M. Harada, A. Munemasa and V.D. Tonchev, A Characterization of Designs Related to an Extremal Doubly-Even Self-Dual Code of Length 48, *Annals of Combinatorics* **9** (2005), 189-198.
19. V. I. Levenshtein and V. D. Tonchev, Conflict-Avoiding Codes and Cyclic Triple Systems, 2005 IEEE International Symposium on Information Theory, Adelaide, Australia, 4-9 September, 2005, pp. 535-537.

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21. V. I. Levenshtein and V. D. Tonchev, On optimal conflict-avoiding codes, *Proceedings of the Sixth International Conference on Discrete Models in Control System Theory*, Moscow, December 7-11, 2004, Moscow State University Press, Moscow 2004, pp. 242-246 (in Russian).
22. A. Munemasa and V.D. Tonchev, A new quasi-symmetric 2-(56,16,6) design obtained from codes *Discrete Math.* **284** (2004), 231-234.

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24. V.D. Tonchev, A note on MDS Codes,  $n$ -Arcs and Complete Designs, *Designs, Codes and Cryptography* **29** (2003), 247-250.
25. V.D. Tonchev, A formula for the number of Steiner quadruple systems on  $2^n$  points of 2-rank  $2^n - n$ , *Journal of Combinatorial Designs*, **11** (2003), 260-274.
26. M. Harada and V.D. Tonchev, Self-Orthogonal Codes from Symmetric Designs with Fixed-Point-Free Automorphisms, *Discrete Math.* 264 (2003), 81-90.
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46. Perfect Codes and Balanced Generalized Weighing Matrices, *Finite Fields and their Applications* **5** (1999), 294-300. (with D. Jungnickel)
47. Linear perfect codes and a characterization of the classical designs, *Designs, Codes and Cryptography* **17** (1999), 121-128.

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48. Characterizing the Hermitian and Ree unitals on 28 points, *Designs, Codes and Cryptography* **13** (1998), 57-61. (with G. McGuire and H. N. Ward).
49. Maximum disjoint bases and constant weight codes, *IEEE Transactions on Information Theory* **44** (1998), 333-334.
50. Quasi-symmetric 2-(28,12,11) Designs with an Automorphism of Order 7, *J. Combin. Designs* **6** (1998), 213-223. (with Yuan Ding, Sheridan Houghten, Clement Lam, Suzan Smith and Larry Thiel)
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63. On the binary codes of Steiner triple systems, *Designs, Codes and Cryptography* **8** (1996), 29-43 (with A. Baartmans and I. Landjev)
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66. Classification of affine resolvable  $2-(27,9,4)$  designs, *J. Statistical Planning and Inference* **56** Issue 2, (1996), 187-202. (with Clement Lam).

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68. The existence of extremal  $[50,25,10]$  codes and quasi-symmetric  $2-(49,9,6)$  designs, *Designs, Codes, and Cryptography* **6** (1995), 97-106. (with W. Cary Huffman)

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70. Linear codes and doubly-transitive symmetric designs, *Linear Algebra and its Applications* **226-228** (1995), 237-246. (with C. Parker)

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