

In Memoriam

**G rard COHEN, Faina SOLOV'eva,
Aimo TIET V INEN, Alexander VARDY.**

COVERING RADIUS, January 10, 2023: 1058 references

Warning and Public Call

I intend to retire on March 1st, 2023. After this day, I will not go on updating this bibliography.

I do not know how long my site, and in particular this page, will remain visible.

Therefore, I am searching for a volunteer, to whom I will give my files, who will take over and keep this bibliography alive in the years to come. I think it can be useful

for the community of researchers working, or wishing to start to work, in this exciting area.

List of updatings since April 1997:

2022 – December: new [317], [657], [740], [869], [978]. **October:** new [597], [646]. **September:** new [330], [331], [394], [770]. **May:** new [192]. **March:** new [254], [325], [414], [894], [999].

2021 – November: new [22], [23], [29], [77], [78], [92], [110], [112], [201], [284], [285], [319], [419], [537], [546], [573], [715], [850]. **October:** new [413]. **July:** new [781].

2019 – December: new [1005], [1006].

2018 – July: new [812]. **January:** new [41], [76], [111], [195], [418], [420], [603], [609], [610], [852], [1007], [1032].

2017 – October: new [709]. **May:** new [28].

2016 – September: new [75], [160].

2015 – December: new [69], [79]. **March:** new [74].

2014 – October: new [47], [80], [138], [760], [846]. **May:** new [653], [858].

2013 – February: new [258], [643], [644], [720], [756], [1046].

2012 – May: new [169], [376], [377], [382], [988].

2011 – November: new [55].

2010 – September: new [26], [56], [139], [486], [669], [757]. **June:** new [821]. **May:** new [577], [578].

2009 – December: new [168], [375], [386], [987]. **November:** new [249], [257], [289], [291], [315], [429], [431], [457], [466], [467], [470], [735], [755], [771], [804], [857]. **September:** new [364]. **August:** new [338].

June: new [378], [379], [381], [671]. **April:** new [278], [279], [280]. **March:** new [61], [336], [380], [586], [719], [876], [1045]. **January:** new [596].

2008 – November: new [333], [337], [369]. **October:** new [57]. **September:** new [668]. **July:** new [332], [432]. **June:** new [119], [1044]. **May:** new [137], [439], [773]. **April:** new [426], [458], [845], [848]. **February:** new [428], [833]. **January:** new [542].

2007 – November: new [393], [575], [576], [585], [1058]. **September:** new [758], [759]. **August:** new

[453], [648]. **July:** new [425], [430], [888]. **June:** new [395]. **April:** new [202], [452], [889]. **March:** new [424]. **January:** new [182], [277], [642].

2006 – November: new [241], [584], [649]. **September:** new [141], [193], [391], [427], [569], [579], [583], [595], [766]. **June:** new [844]. **April:** new [283]. **March:** new [27], [656], [807]. **February:** new [421], [639].

2005 – October: new [344]. **September:** new [144], [167], [172]. **February:** new [140], [205], [262], [367], [383], [384], [658], [749], [1004].

2004 – October: new [185]. **August:** new [739]. **April:** new [594], [623]. **January:** new [253], [765], [1008].

2003 – November: new [49], [53], [81], [103], [115], [134], [143], [174], [196], [245], [259], [260], [294], [312], [322], [323], [450], [525], [526], [574], [605], [714], [764], [799], [805], [806], [849], [855], [861], [919], [949], [989], [994], [1041]. **August:** new [282], [355]. **July:** new [281], [385], [405], [534], [621]. **June:** new [132], [581]. **May:** new [123], [326]. **April:** new [58], [303], [423], [602], [798], [1003]. **February:** new [580], [582]. **January:** new [31].

2002 – October: new [415], [454], [456], [535], [909]. **March:** new [25], [251], [808], [811], [818]. **January:** new [198], [721].

2001 – December: new [370], [817], [980]. **May:** new [507], [552]; updated [126]. **April:** new [54], [272], [287], [288], [313], [608], [800], [842], [843]. **March:** new [638]. **January:** new [592], [816].

2000 – October: new [508]. **August:** new [815]. **April:** new [247], [455]. **February:** updated [797]. **January:** new [261]; updated [544].

1999 – December: new [374], [591]; updated [831]. **October:** new [361], [422], [437], [637], [810], [832], [837]. **June:** new [611]; updated [125], [503]. **March:** new [73], [118], [485], [809]. **January:** new [24], [113], [238], [512], [918]; updated [151] (ex [104]), [321], [514].

1998 – June: new [32], [636], [641]; updated [640]. **May:** new [796]; updated [346]. **April:** updated [691] (ex [444]). **January:** new [131], [263], [286]; updated [60], [371], [436], [476], [506], [530], [666], [802], [803], [982].

1997 – November: new [212], [487], [532]; updated [795]. **October:** new [271]. **September:** new [783]; updated [226] (ex [161]), [270]. **August:** new [299], [555]; updated [239] (ex [168]), [509], [590], [703], [951], [993]. **July:** new [124], [1034]. **May:** new [484], [742], [979]; updated [513], [531], [794]. **April:** new [194], [366], [551], [941], [973], [1030]; updated [46], [229], [246], [435], [856].

[0] G. D. COHEN, I. S. HONKALA, S. LITSYN and A. C. LOBSTEIN: *Covering Codes*, Amsterdam: Elsevier, xxii+542 pp., 1997.

References

- [1] M. J. AALTONEN: Linear programming bounds for tree codes, *IEEE Trans. Inform. Th.*, vol. 25, pp. 85–90, 1979.
- [2] M. J. AALTONEN: Bounds on the information rate of a tree code as a function of the code's feedback decoding minimum distance, *Ann. Univ. Turku*, Ser. A I, No. 181, 1981.
- [3] M. J. AALTONEN: A new upper bound on nonbinary block codes, *Discrete Mathematics*, vol. 83, pp. 139–160, 1990.
- [4] E. H. L. AARTS and J. KORST: *Simulated Annealing and Boltzmann Machines: a Stochastic Approach to Combinatorial Optimization and Neural Computing*, Chichester: Wiley, 1989.
- [5] E. H. L. AARTS and P. J. M. van LAARHOVEN: Local search in coding theory, *Discrete Mathematics*, vol. 106/107, pp. 11–18, 1992.
- [6] C. M. ADAMS and S. E. TAVARES: Generating and counting binary bent sequences, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1170–1173, 1990.
- [7] M. J. ADAMS: Subcodes and covering radius, *IEEE Trans. Inform. Th.*, vol. 32, pp. 700–701, 1986.
- [8] R. AHLWEDE: Coloring hypergraphs: a new approach to multi-user source coding–II, *J. Combinatorics, Information & System Sciences*, vol. 5, No. 3, pp. 220–268, 1980.
- [9] R. AHLWEDE, L. A. BASSALYGO and M. S. PINSKER: Binary constant-weight codes correcting localized errors and defects, *Problemy Peredachi Informatsii*, vol. 30, No. 2, pp. 102–104, 1994. Translated in: *Problems of Inform. Transm.*, vol. 30, No. 2, pp. 10–13.
- [10] R. AHLWEDE and G. SIMONYI: Reusable memories in the light of the old arbitrarily varying and a new outputwise varying channel theory, *IEEE Trans. Inform. Th.*, vol. 37, pp. 1143–1150, 1991.
- [11] R. AHLWEDE and Z. ZHANG: Coding for write-efficient memory, *Information and Control*, vol. 83, pp. 80–97, 1989.
- [12] J. M. van der AKKER, J. H. KOOLEN and R. J. M. VAESSENS: Perfect codes with distinct protective radii, *Discrete Mathematics*, vol. 81, pp. 103–109, 1990. Addendum, *Discrete Mathematics*, vol. 89, p. 325, 1991.
- [13] N. ALON: Explicit construction of exponential sized families of k -independent sets, *Discrete Mathematics*, vol. 58, pp. 191–193, 1986.
- [14] N. ALON: Transmitting in the n -dimensional cube, *Discrete Applied Mathematics*, vol. 37/38, pp. 9–11, 1992.
- [15] N. ALON, L. BABAI and A. ITAI: A fast and simple randomized algorithm for the maximal independent set problem, *J. Algorithms*, vol. 7, pp. 567–583, 1986.
- [16] N. ALON, E. E. BERGMANN, D. COPPERSMITH and A. M. ODLYZKO: Balancing sets of vectors, *IEEE Trans. Inform. Th.*, vol. 34, pp. 128–130, 1988.

- [17] N. ALON, J. BRUCK, J. NAOR, M. NAOR and R. ROTH: Construction of asymptotically good low-rate error-correcting codes through pseudo-random graphs, *IEEE Trans. Inform. Th.*, vol. 38, pp. 509–516, 1992.
- [18] N. ALON, M. B. NATHANSON and I. RUZSA: The polynomial method and restricted sums of congruence classes, Preprint, 1996.
- [19] N. ALON and J. H. SPENCER: *The Probabilistic Method*, New York: Wiley, 1992.
- [20] D. R. ANDERSON: A new class of cyclic codes, *SIAM J. Applied Mathematics*, vol. 16, pp. 181–197, 1968.
- [21] I. ANDERSON: *Combinatorics of Finite Sets*, Oxford: Clarendon Press, 1987.
- [22] N. ANNAMALAI and C. DURAIRAJAN: On codes over Z_{p^2} and its covering radius, *Asian-European Journal of Mathematics*, vol. 12(2), 1950027, 10 pp., 2019.
- [23] N. ANNAMALAI and C. DURAIRAJAN: On covering radius of codes over Z_{2p} , *Asian-European Journal of Mathematics*, vol. 13(2), 2050033, 9 pp., 2020.
- [24] T. AOKI, P. GABORIT, M. HARADA, M. OZEKI and P. SOLÉ: On the covering radius of Z_4 -codes and their lattices, *IEEE Trans. Inform. Th.*, vol. 45, pp. 2162–2168, 1999.
- [25] D. APPEGATE, E. M. RAINS and N. J. A. SLOANE: On asymmetric coverings and covering numbers, *J. Combinatorial Designs*, vol. 11, pp. 218–228, 2003.
- [26] S. ARAVAMUTHAN: Separable hash functions, to appear.
- [27] S. ARAVAMUTHAN and S. LODHA: Covering codes for hats-on-a-line, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_13/v13i1toc.html, R21, 2006.
- [28] R. ARCE-NAZARIO, F. N. CASTRO and J. ORTIZ-UBARRI: On the covering radius of some binary cyclic codes, *Advances in Mathematics of Communications*, vol. 11, pp. 329–338, 2017.
- [29] S. ARUMUGAM and R. KALA: Domination parameters of hypercubes, *J. Indian Math. Soc.*, vol. 65, pp. 31–38, 1998.
- [30] A. ASHIKHMIN, M. BANDSTRA and A. BARG: Bounds on the covering radius of linear codes, *Proc. IEEE Symp. on Information Theory*, p. 38, Washington, 2001.
- [31] A. ASHIKHMIN and A. BARG: Bounds on the covering radius of linear codes, *Designs, Codes and Cryptography*, vol. 27, pp. 261–269, 2002.
- [32] A. ASHIKHMIN, I. S. HONKALA, T. LAIHONEN and S. LITSYN: On relations between covering radius and dual distance, *IEEE Trans. Inform. Th.*, vol. 45, pp. 1808–1816, 1999.
- [33] E. F. ASSMUS, Jr., and H. F. MATTSON, Jr.: Error-correcting codes: an axiomatic approach, *Information and Control*, vol. 6, pp. 315–330, 1963.
- [34] E. F. ASSMUS, Jr., and H. F. MATTSON, Jr.: Coding and combinatorics, *SIAM Review*, vol. 16, pp. 349–388, 1974.

- [35] E. F. ASSMUS, Jr., and H. F. MATTSON, Jr.: Some 3-error correcting BCH codes have covering radius 5, *IEEE Trans. Inform. Th.*, vol. 22, pp. 348–349, 1976.
- [36] E. F. ASSMUS, Jr., H. F. MATTSON, Jr., and R. TURYN: Cyclic codes, Final Report, Document No. AFCRL-66-348, Sylvania App. Res. Lab., Waltham, United States, 1966.
- [37] E. F. ASSMUS, Jr., and V. S. PLESS: On the covering radius of extremal self-dual codes, *IEEE Trans. Inform. Th.*, vol. 29, pp. 359–363, 1983.
- [38] J. ASTOLA: On the nonexistence of certain perfect Lee-error-correcting codes, *Ann. Univ. Turku, Ser. A I*, No. 167, 1975.
- [39] J. ASTOLA: On perfect codes in the Lee-metric, *Ann. Univ. Turku, Ser. A I*, No. 176, p. 56, 1978.
- [40] J. ASTOLA: A note on perfect arithmetic codes, *IEEE Trans. Inform. Th.*, vol. 32, pp. 443–445, 1986.
- [41] D. AUGER, G. COHEN and S. MESNAGER: Sphere coverings and identifying codes, *Designs, Codes and Cryptography*, vol. 70, pp. 3–7, 2014.
- [42] S. V. AVGUSTINOVICH: On one property of perfect binary codes, *Diskr. Analys i Issledovanie Operatsii*, vol. 2, No. 1, pp. 4–6, 1995 (in Russian).
- [43] S. V. AVGUSTINOVICH and F. I. SOLOV’EVA: On projections of perfect binary codes, *Proc. Seventh Joint Swedish-Russian Internat. Workshop on Information Theory*, pp. 25–26, St-Petersburg, 1995.
- [44] S. V. AVGUSTINOVICH and F. I. SOLOV’EVA: Construction of perfect binary codes by the sequential translations of the i -components, *Proc. 5th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 9–14, Sozopol, 1996.
- [45] S. V. AVGUSTINOVICH and F. I. SOLOV’EVA: Existence of nonsystematic perfect binary codes, *Proc. 5th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 15–19, Sozopol, 1996.
- [46] S. V. AVGUSTINOVICH and F. I. SOLOV’EVA: On the nonsystematic perfect binary codes, *Problemy Peredachi Informatsii*, vol. 32, No. 3, pp. 47–50, 1996. Translated in: *Problems of Inform. Transm.*, vol. 32, No. 3, pp. 258–261.
- [47] A. J. AW: The multicovering radius problem for some types of discrete structures, *Designs, Codes and Cryptography*, vol. 72, pp. 195–209, 2014.
- [48] J. AX: Zeroes of polynomials over finite fields, *American J. Math.*, vol. 86, pp. 255–261, 1964.
- [49] M. AXENOVICH and Z. FÜREDI: Exact bounds on the sizes of covering codes, *Designs, Codes and Cryptography*, vol. 30, pp. 21–38, 2003.
- [50] T. S. BAICHEVA: Covering radius of ternary cyclic codes with length up to 20, *Proc. 4th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 12–17, Novgorod, 1994.

- [51] T. S. BAICHEVA: Least covering radius of two-dimensional codes over $GF(3)$ and $GF(4)$, *Proc. Internat. Workshop on Optimal Codes*, pp. 7–10, Sozopol, 1995.
- [52] T. S. BAICHEVA: Least covering radii of ternary linear codes, *Proc. 5th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 20–24, Sozopol, 1996.
- [53] T. S. BAICHEVA: The covering radius of ternary cyclic codes with length up to 25, *Designs, Codes and Cryptography*, vol. 13, pp. 223–227, 1998.
- [54] T. S. BAICHEVA: On the covering radius of ternary negacyclic codes with length up to 26, *IEEE Trans. Inform. Th.*, vol. 47, pp. 413–416, 2001.
- [55] 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, pp. 681–686, 2011.
- [56] T. BAICHEVA and I. BOUYUKLIEV: On the least covering radius of binary linear codes of dimension 6, *Advances in Mathematics of Communications*, vol. 4, pp. 399–404, 2010.
- [57] T. BAICHEVA, I. BOUYUKLIEV, S. DODUNEKOV and V. FACK: Binary and ternary linear quasi-perfect codes with small dimensions, *IEEE Trans. Inform. Th.*, vol. 54, pp. 4335–4339, 2008.
- [58] T. S. BAICHEVA and V. VAVREK: On the least covering radius of binary linear codes with small lengths, *IEEE Trans. Inform. Th.*, vol. 49, pp. 738–740, 2003.
- [59] T. S. BAICHEVA and E. D. VELIKOVA: Least covering radius of three-dimensional codes over $GF(3)$, *Proc. 25th Conf. of the Union of Bulgarian Mathematicians*, pp. 68–71, 1996.
- [60] T. S. BAICHEVA and E. D. VELIKOVA: Covering radii of ternary linear codes of small dimensions and codimensions, *IEEE Trans. Inform. Th.*, vol. 43, pp. 2057–2061, 1997, and vol. 44, p. 2032, 1998.
- [61] E. BALAS and S. NG: On the set covering polytope I: All the facets with coefficients in $\{0, 1, 2\}$, *Mathematical Programming*, vol. 43, pp. 57–69, 1989.
- [62] P. BALDI: On a generalized family of colorings, *Graphs and Combinatorics*, vol. 6, pp. 95–110, 1990.
- [63] K. BALL: On packing unequal squares, *J. Combinatorial Th.*, Ser. A, vol. 75, pp. 353–357, 1996.
- [64] E. BANNAI: On perfect codes in the Hamming schemes $H(n, q)$ with q arbitrary, *J. Combinatorial Th.*, Ser. A, vol. 23, pp. 52–67, 1977.
- [65] E. BANNAI: Codes in bi-partite distance-regular graphs, *J. London Math. Soc.* (2), vol. 16, pp. 197–202, 1977.
- [66] E. BANNAI: Orthogonal polynomials in coding theory and algebraic combinatorics, in: *Orthogonal Polynomials*, Nevai, Ed., pp. 25–53, Kluwer, 1990.
- [67] E. BANNAI and T. ITO: *Algebraic Combinatorics I - Association Schemes*, Benjamin-Cummins, California, 1984.
- [68] I. BÁRÁNY: A short proof of Kneser’s conjecture, *J. Combinatorial Th.*, Ser. A, vol. 25, pp. 325–326, 1978.

- [69] E. BARDELLOTTO and F. FABRIS: Binary list decoding beyond covering radius, *Journal of Information and Optimization Sciences*, vol. 35, pp. 561–570, 2014.
- [70] A. M. BARG: At the dawn of the theory of codes, *Mathematical Intelligencer*, vol. 15, pp. 20–26, 1993.
- [71] A. M. BARG: Some new NP-complete coding problems, *Problemy Peredachi Informatsii*, vol. 30, No. 3, pp. 23–28, 1994. Translated in: *Problems of Inform. Transm.*, vol. 30, No. 3, pp. 209–214.
- [72] J. P. BARTHÉLEMY, G. D. COHEN and A. C. LOBSTEIN: *Complexité algorithmique et problèmes de communications*, Paris: Masson, 1992.
- [73] J. P. BARTHÉLEMY, G. D. COHEN and A. C. LOBSTEIN: *Algorithmic Complexity and Communication Problems*, London: University College of London, 1996.
- [74] D. BARTOLI, A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: Multiple coverings of the farthest-off points with small density from projective geometry, *Advances in Mathematics of Communications*, vol. 9, pp. 63–85, 2015.
- [75] D. BARTOLI, A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: Further results on multiple coverings of the farthest-off points, *Advances in Mathematics of Communications*, vol. 10, pp. 613–632, 2016.
- [76] D. BARTOLI, A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: New bounds for linear codes of covering radius 2, *Lecture Notes in Computer Science*, No. 10495, pp. 1–10, Springer-Verlag, 2017.
- [77] D. BARTOLI, A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: New bounds for linear codes of covering radii 2 and 3, *Cryptography and Communications. Discrete Structures, Boolean Functions and Sequences*, vol. 11(5), pp. 903–920, 2019.
- [78] D. BARTOLI, A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: On planes through points off the twisted cubic in $PG(3, q)$ and multiple covering codes, *Finite Fields and their Applications*, vol. 67, 101710, 25 pp., 2020.
- [79] D. BARTOLI, M. GIULIETTI and I. PLATONI: On the covering radius of MDS codes, *IEEE Trans. Inform. Th.*, vol. 61, pp. 801–811, 2015.
- [80] D. BARTOLI, S. MARCUGINI and F. PAMBIANCO: A probabilistic construction of low density quasi-perfect linear codes, *Proc. 14th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 51–56, Svetlogorsk, 2014.
- [81] J. M. BASART and J. RIFÁ: Covering radius for codes obtained from $T(m)$ triangular graphs, *Lecture Notes in Computer Science*, No. 356, pp. 16–24, Springer-Verlag, 1989.
- [82] L. A. BASSALYGO: New upper bounds for error-correcting codes, *Problemy Peredachi Informatsii*, vol. 1, No. 4, pp. 41–45, 1965 (in Russian). Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 244–245, IEEE Press, 1974.

- [83] L. A. BASSALYGO: A generalization of Lloyd's theorem to the case of any alphabet, *Problemy Upravleniya i Teorii Informatsii*, vol. 2, No. 2, pp. 133–137, 1973. Translated in: *Problems of Control and Information Th.*, vol. 2, No. 2, pp. 25–28.
- [84] L. A. BASSALYGO: A necessary condition for the existence of perfect codes in the Lee metric, *Math. Notes*, vol. 15, pp. 178–181, 1974.
- [85] L. A. BASSALYGO, S. I. GELFAND and M. S. PINSKER: Coding for channels with localized errors, *Proc. Fourth Joint Swedish-Soviet Internat. Workshop on Information Theory*, pp. 95–99, Gotland, 1989.
- [86] L. A. BASSALYGO, H. D. L. HOLLMANN, J. KÖRNER and S. LITSYN: Tiling Hamming space with few spheres, Preprint, 1996.
- [87] L. A. BASSALYGO, G. V. ZAITSEV and V. A. ZINOVIEV: On uniformly packed codes, *Problemy Peredachi Informatsii*, vol. 10, No. 1, pp. 9–14, 1974. Translated in: *Problems of Inform. Transm.*, vol. 10, No. 1, pp. 6–9.
- [88] L. A. BASSALYGO and V. A. ZINOVIEV: Remark on uniformly packed codes, *Problemy Peredachi Informatsii*, vol. 13, No. 3, pp. 22–25, 1977. Translated in: *Problems of Inform. Transm.*, vol. 13, No. 3, pp. 178–180.
- [89] L. A. BASSALYGO, V. A. ZINOVIEV and V. K. LEONTIEV: Perfect codes over arbitrary alphabet, *Proc. Third Internat. Symp. on Information Theory*, part II, pp. 23–28, Tallinn, 1973 (in Russian).
- [90] L. A. BASSALYGO, V. A. ZINOVIEV, V. K. LEONTIEV and N. I. FELDMAN: Nonexistence of perfect codes over some composite alphabets, *Problemy Peredachi Informatsii*, vol. 11, No. 3, pp. 3–13, 1975. Translated in: *Problems of Inform. Transm.*, vol. 11, No. 3, pp. 181–189.
- [91] H. BAUER, B. GANTER and F. HERGERT: Algebraic techniques for nonlinear codes, *Combinatorica*, vol. 3, pp. 21–33, 1983.
- [92] L. BAZZI: On the covering radius of small codes versus dual distance, *IEEE Trans. Inform. Th.*, vol. 65(1), pp. 174–183, 2019.
- [93] J. BECK and T. FIALA: “Integer-making” theorems, *Discrete Applied Mathematics*, vol. 3, pp. 1–8, 1981.
- [94] J. BECK and J. H. SPENCER: Balancing matrices with line shifts, *Combinatorica*, vol. 3, pp. 299–304, 1983.
- [95] B. BECKER and H. U. SIMON: How robust is the n -cube?, *Inform. Comput.*, vol. 77, pp. 162–178, 1988.
- [96] C. BERGE: *Graphes*, Paris: Gauthier-Villars, 1983.
- [97] C. BERGE: *Hypergraphes*, Paris: Gauthier-Villars, 1987.
- [98] T. BERGER: *Rate Distortion Theory*, Englewood Cliffs: Prentice-Hall, 1971.

- [99] E. R. BERLEKAMP: *Algebraic Coding Theory*, New York: McGraw-Hill, 1968.
- [100] E. R. BERLEKAMP, R. J. MCELIECE and H. C. A. van TILBORG: On the inherent intractability of certain coding problems, *IEEE Trans. Inform. Th.*, vol. 24, pp. 384–386, 1978.
- [101] E. R. BERLEKAMP and L. R. WELCH: Weight distribution of the cosets of the (32, 6) Reed-Muller code, *IEEE Trans. Inform. Th.*, vol. 18, pp. 203–207, 1972.
- [102] J. BERNASCONI: Optimization problems and statistical mechanics, *Proc. Workshop on Chaos and Complexity*, pp. 245–259, Singapore, 1988.
- [103] R. BERTOLO, P. R. J. ÖSTERGÅRD and W. D. WEAKLEY: An updated table of binary/ternary mixed covering codes, *J. Combinatorial Designs*, vol. 12, pp. 157–176, 2004.
- [104] M. R. BEST: On the existence of perfect codes, Report ZN 82/78, Mathematical Centre, Amsterdam, the Netherlands, 1978.
- [105] M. R. BEST: A contribution to the nonexistence of perfect codes, Ph. D. Thesis, University of Amsterdam, the Netherlands, 1982.
- [106] M. R. BEST: Perfect codes hardly exist, *IEEE Trans. Inform. Th.*, vol. 29, pp. 349–351, 1983.
- [107] M. R. BEST, A. E. BROUWER, F. J. MACWILLIAMS, A. M. ODLYZKO and N. J. A. SLOANE: Bounds for binary codes of length less than 25, *IEEE Trans. Inform. Th.*, vol. 24, pp. 81–93, 1978.
- [108] M. BEVERAGGI: Problèmes combinatoires en codage algébrique, Thèse de Doctorat, Université Paris 6, France, 120 pp., 1987.
- [109] M. BEVERAGGI and G. D. COHEN: On the density of best coverings in Hamming spaces, *Lecture Notes in Computer Science*, No. 311, pp. 39–44, Springer-Verlag, 1988.
- [110] S. BEZRUKOV: On the number of leaves in a spanning tree of the unit cube, Unpublished, 2014.
- [111] S. BEZZATEEV and N. SHEKHUNOVA: Lower bound of covering radius of binary irreducible Goppa codes, *Designs, Codes and Cryptography*, vol. 82, pp. 69–76, 2017.
- [112] S. V. BEZZATEEV and N. A. SHEKHUNOVA: Lower bounds on the covering radius of the non-binary and binary irreducible Goppa codes, *IEEE Trans. Inform. Th.*, vol. 64(11), pp. 7171–7177, 2018.
- [113] M. C. BHANDARI, K. K. CHANDUKA and A. K. LAL: On lower bounds for covering codes, *Designs, Codes and Cryptography*, vol. 15, pp. 237–243, 1998.
- [114] M. C. BHANDARI and C. DURAIRAJAN: A note on bounds for q -ary covering codes, *IEEE Trans. Inform. Th.*, vol. 42, pp. 1640–1642, 1996.
- [115] M. C. BHANDARI and C. DURAIRAJAN: On the covering radius of Simplex codes, *J. Discrete Mathematical Sciences & Cryptography*, vol. 6, pp. 59–69, 2003.
- [116] M. C. BHANDARI and M. S. GARG: Comments on “On the covering radius of codes”, *IEEE Trans. Inform. Th.*, vol. 36, pp. 953–954, 1990.

- [117] M. C. BHANDARI and M. S. GARG: A note on the covering radius of optimum codes, *Discrete Applied Mathematics*, vol. 33, pp. 3–9, 1991.
- [118] M. C. BHANDARI, M. K. GUPTA and A. K. LAL: Some results on NQR codes, *Designs, Codes and Cryptography*, vol. 16, pp. 5–9, 1999.
- [119] J. BIERBRAUER and J. FRIDRICH: Constructing good covering codes for applications in steganography, *Lecture Notes in Computer Science*, No. 4920, pp. 1–22, Springer-Verlag, 2008.
- [120] N. L. BIGGS: Perfect codes in graphs, *J. Combinatorial Th.*, Ser. B, vol. 15, pp. 289–296, 1973.
- [121] N. L. BIGGS: Perfect codes and distance-transitive graphs, in: *Combinatorics*, McDonough and Mavron, Eds., London Math. Soc., Lecture Notes, No. 13, pp. 1–8, Cambridge University Press, 1974.
- [122] I. F. BLAKE and R. C. MULLIN: *The Mathematical Theory of Coding*, New York: Academic Press, 1975.
- [123] U. BLASS, I. HONKALA, M. G. KARPOVSKY and S. LITSYN: Short dominating paths and cycles in the binary hypercube, *Annals of Combinatorics*, vol. 5, pp. 51–59, 2001.
- [124] U. BLASS and S. LITSYN: Several new lower bounds on the size of codes with covering radius one, *IEEE Trans. Inform. Th.*, vol. 44, pp. 1998–2002, 1998.
- [125] U. BLASS and S. LITSYN: Several new lower bounds for football pool systems, *Ars Combinatoria*, vol. 50, pp. 297–302, 1998.
- [126] U. BLASS and S. LITSYN: The smallest covering code of length 8 and radius 2 has 12 words, *Ars Combinatoria*, vol. 52, pp. 309–318, 1999.
- [127] V. M. BLINOVSKII: Bounds for codes in the case of list decoding of finite volume, *Problemy Peredachi Informatsii*, vol. 22, No. 1, pp. 11–25, 1986. Translated in: *Problems of Inform. Transm.*, vol. 22, No. 1, pp. 7–19.
- [128] V. M. BLINOVSKII: Lower asymptotic bound on the number of linear code words in a sphere of given radius in F_q^n , *Problemy Peredachi Informatsii*, vol. 23, No. 2, pp. 50–53, 1987. Translated in: *Problems of Inform. Transm.*, vol. 23, No. 2, pp. 130–132.
- [129] V. M. BLINOVSKII: Asymptotically exact uniform bounds for spectra of cosets of linear codes, *Problemy Peredachi Informatsii*, vol. 26, No. 1, pp. 99–103, 1990. Translated in: *Problems of Inform. Transm.*, vol. 26, No. 1, pp. 83–86.
- [130] V. M. BLINOVSKII: Covering the Hamming space with sets translated by linear code vectors, *Problemy Peredachi Informatsii*, vol. 26, No. 3, pp. 21–26, 1990. Translated in: *Problems of Inform. Transm.*, vol. 26, No. 3, pp. 196–201.
- [131] V. M. BLINOVSKII: *Asymptotic Combinatorial Coding Theory*, Boston: Kluwer, 1997.
- [132] A. BLOKHUIS, S. EGNER, H. D. L. HOLLMANN and J. H. van LINT: On codes with covering radius 1 and minimum distance 2, *Indagationes Mathematicae, N.S.*, vol. 12(4), pp. 449–452, 2001.

- [133] A. BLOKHUIS and C. W. H. LAM: More coverings by rook domains, *J. Combinatorial Th.*, Ser. A, vol. 36, pp. 240–244, 1984.
- [134] I. E. BOCHAROVA and B. D. KUDRYASHOV: On the covering radius of convolutional codes, *Lecture Notes in Computer Science*, No. 781, pp. 56–62, Springer-Verlag, 1994.
- [135] E. BOMBIERI: On exponential sums in finite fields, *American J. Math.*, vol. 88, pp. 71–105, 1966.
- [136] J. M. BORDEN: Coding for write-unidirectional memories, Unpublished, 1986.
- [137] J. BORGES, J. RIFÁ and V. A. ZINOVIEV: On non-antipodal binary completely regular codes, *Discrete Mathematics*, vol. 308, pp. 3508–3525, 2008.
- [138] J. BORGES, J. RIFÁ and V. A. ZINOVIEV: New families of completely regular codes and their corresponding distance regular coset graphs, *Designs, Codes and Cryptography*, vol. 70, pp. 139–148, 2014.
- [139] J. BORGES, J. RIFÁ and V. A. ZINOVIEV: On linear q -ary completely regular codes with $\rho = 2$ and dual antipodal, to appear.
- [140] Y. BORISSOV, A. BRAEKEN, S. NIKOVA and B. PRENEEL: On the covering radius of second order binary Reed-Muller code in the set of resilient Boolean functions, *Lecture Notes in Computer Science*, No. 2898, pp. 82–92, Springer-Verlag, 2003.
- [141] Y. BORISSOV, A. BRAEKEN, S. NIKOVA and B. PRENEEL: On the covering radii of binary Reed-Muller codes in the set of resilient Boolean functions, *IEEE Trans. Inform. Th.*, vol. 51, pp. 1182–1189, 2005.
- [142] A. BRACE and D. E. DAYKIN: Sperner type theorems for finite sets, *Proc. British Combinatorial Conf.*, pp. 18–37, 1972.
- [143] M. BREIT, D. DESHOMMES and A. FALDEN: Hats required, Preprint, 2002.
- [144] T. BRITZ and C. G. RUTHERFORD: Covering radii are not matroid invariants, *Discrete Mathematics*, vol. 296, pp. 117–120, 2005.
- [145] A. E. BROUWER: Some lotto numbers from an extension of Turán’s theorem, Report 152, Mathematical Centre, Amsterdam, the Netherlands, i+6 pp., 1981.
- [146] A. E. BROUWER, J. B. SHEARER, N. J. A. SLOANE and W. D. SMITH: A new table of constant weight codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1334–1380, 1990.
- [147] A. E. BROUWER and T. VERHOEFF: An updated table of minimum-distance bounds for binary linear codes, *IEEE Trans. Inform. Th.*, vol. 39, pp. 662–677, 1993.
- [148] A. E. BROUWER and M. VOORHOEVE: Turan theory and the lotto problem, *Math. Centre Tracts*, vol. 106, pp. 99–105, 1979.
- [149] T. A. BROWN and J. H. SPENCER: Minimization of ± 1 matrices under line shifts, *Colloq. Math.*, vol. 23, pp. 165–171, 1971.

- [150] R. A. BRUALDI, N. CAI and V. S. PLESS: Orphan structure of the first-order Reed-Muller codes, *Discrete Mathematics*, vol. 102, pp. 239–247, 1992.
- [151] R. A. BRUALDI, S. LITSYN and V. S. PLESS: Covering radius, in: *Handbook of Coding Theory*, Pless and Huffman, Eds., Chapter 8, Elsevier, 1998.
- [152] R. A. BRUALDI and V. S. PLESS: Orphans of the first order Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 399–401, 1990.
- [153] R. A. BRUALDI and V. S. PLESS: On the covering radius of a code and its subcodes, *Discrete Mathematics*, vol. 83, pp. 189–199, 1990.
- [154] R. A. BRUALDI and V. S. PLESS: On the length of codes with a given covering radius, in: *Coding Theory and Design Theory. Part I: Coding Theory*, Ray-Chaudhuri, Ed., pp. 9–15, New York: Springer-Verlag, 1990.
- [155] R. A. BRUALDI and V. S. PLESS: Subcodes of Hamming codes, *Congressus Numerantium*, vol. 70, pp. 153–158, 1990.
- [156] R. A. BRUALDI, V. S. PLESS and R. M. WILSON: Short codes with a given covering radius, *IEEE Trans. Inform. Th.*, vol. 35, pp. 99–109, 1989.
- [157] J. BRUCK and M. NAOR: The hardness of decoding linear codes with preprocessing, *IEEE Trans. Inform. Th.*, vol. 36, pp. 381–385, 1990.
- [158] P. B. BUSSCHBACH: Constructive methods to solve problems of s -surjectivity, conflict resolution, coding in defective memories, Rapport Interne ENST 84-D005, Ecole Nationale Supérieure des Télécommunications, Paris, France, 1984.
- [159] P. B. BUSSCHBACH, M. G. L. GERRETZEN and H. C. A. van TILBORG: On the covering radius of binary linear codes meeting the Griesmer bound, *IEEE Trans. Inform. Th.*, vol. 31, pp. 465–468, 1985.
- [160] E. BYRNE and A. RAVAGNANI: Covering radius of matrix codes endowed with the rank metric, *SIAM J. Discrete Mathematics*, vol. 31, pp. 927–944, 2017.
- [161] A. CÁCERES and O. MORENO: On the estimation of minimum distance of duals of BCH codes, *Congressus Numerantium*, vol. 81, pp. 205–208, 1991.
- [162] A. R. CALDERBANK: Covering radius and the chromatic number of Kneser graphs, *J. Combinatorial Th.*, Ser. A, vol. 54, pp. 129–131, 1990.
- [163] A. R. CALDERBANK: Covering bounds for codes, *J. Combinatorial Th.*, Ser. A, vol. 60, pp. 117–122, 1992.
- [164] A. R. CALDERBANK: Covering machines, *Discrete Mathematics*, vol. 106/107, pp. 105–110, 1992.
- [165] A. R. CALDERBANK, P. C. FISHBURN and A. RABINOVICH: Covering properties of convolutional codes and associated lattices, *IEEE Trans. Inform. Th.*, vol. 41, pp. 732–746, 1995.

- [166] A. R. CALDERBANK and N. J. A. SLOANE: Inequalities for covering codes, *IEEE Trans. Inform. Th.*, vol. 34, pp. 1276–1280, 1988.
- [167] P. J. CAMERON, Ed.: Research problems, *Discrete Mathematics*, vol. 231, pp. 469–478, 2001.
- [168] P. J. CAMERON: Permutation codes, *European J. Combinatorics*, vol. 31, pp. 482–490, 2010.
- [169] P. J. CAMERON and M. GADOULEAU: Remoteness of permutation codes, *European Journal of Combinatorics*, vol. 33, pp. 1273–1285, 2012.
- [170] P. J. CAMERON and J. H. van LINT: *Graph Theory, Coding Theory and Block Designs*, London Math. Soc., Lecture Notes, No. 19, Cambridge University Press, 1975.
- [171] P. J. CAMERON, J. A. THAS and S. E. PAYNE: Polarities of generalized hexagons and perfect codes, *Geometriae Dedicata*, vol. 5, pp. 525–528, 1976.
- [172] P. J. CAMERON and I. M. WANLESS: Covering radius for sets of permutations, *Discrete Mathematics*, vol. 293, pp. 91–109, 2005.
- [173] P. CAMION, B. COURTEAU and P. DELSARTE: On r -partition designs in Hamming spaces, *Applicable Algebra in Engineering, Communication and Computing*, vol. 2, pp. 147–162, 1992.
- [174] A. CANTEAUT: On the weight distributions of optimal cosets of the first-order Reed-Muller codes, *IEEE Trans. Inform. Theory*, vol. 47, pp. 407–413, 2001.
- [175] H. T. CAO, R. L. DOUGHERTY and H. JANWA: A $[55, 16, 19]$ binary Goppa code and related codes having large minimum distance, *IEEE Trans. Inform. Theory*, vol. 37, pp. 1432–1433, 1991.
- [176] C. CARLET: A transformation on Boolean functions, its consequences on some problems related to Reed-Muller codes, *Lecture Notes in Computer Science*, No. 514, pp. 42–50, Springer-Verlag, 1991.
- [177] C. CARLET: Partially-bent functions, *Designs, Codes and Cryptography*, vol. 3, pp. 135–145, 1993.
- [178] C. CARLET: Two new classes of bent functions, *Lecture Notes in Computer Science*, No. 765, pp. 77–101, Springer-Verlag, 1994.
- [179] C. CARLET: Partial Spreads généralisés, *Comptes-Rendus de l'Académie des Sciences*, Ser. I, vol. 318, pp. 967–970, 1994.
- [180] C. CARLET: Generalized partial spreads, *IEEE Trans. Inform. Th.*, vol. 41, pp. 1482–1487, 1995.
- [181] C. CARLET and P. GUILLOT: A characterization of binary bent functions, *J. Combinatorial Th.*, Ser. A, vol. 76, pp. 328–335, 1996.
- [182] C. CARLET and S. MESNAGER: Improving the upper bounds on the covering radii of binary Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 53, pp. 162–173, 2007.
- [183] C. CARLET, J. SEBERRY and X. M. ZHANG: Comments on “Generating and counting binary bent sequences”, *IEEE Trans. Inform. Th.*, vol. 40, p. 600, 1994.

- [184] L. CARLITZ and S. UCHIYAMA: Bounds for exponential sums, *Duke Math. J.*, vol. 24, pp. 37–41, 1957. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 275–276, IEEE Press, 1974.
- [185] J. CARLSON and D. STOLARSKI: The correct solution to Berlekamp’s switching game, *Discrete Mathematics*, vol. 287, pp. 145–150, 2004.
- [186] W. A. CARNIELLI: Some investigations on covering problems, in: *Collected Papers*, Alas, Da Costa and Hönig, Eds., pp. 127–134, São Paulo, Brazil, 1982.
- [187] W. A. CARNIELLI: On covering and coloring problems for rook domains, *Discrete Mathematics*, vol. 57, pp. 9–16, 1985.
- [188] W. A. CARNIELLI: Limites superiores e inferiores para problemas de cobertura em espaços de Hamming, *Proc. 16th Brazilian Mathematical Colloquium*, Rio de Janeiro, 1987.
- [189] W. A. CARNIELLI: Hyper-rook domain inequalities, *Stud. Appl. Math.*, vol. 82, pp. 59–69, 1990.
- [190] V. ČERNÝ: Thermodynamical approach to the traveling salesman problem: an efficient simulation algorithm, *J. Opt. Th. Appl.*, vol. 45, pp. 41–51, 1985.
- [191] I. CHARON, O. HUDRY and A. C. LOBSTEIN: A new method for constructing codes, *Proc. 4th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 62–65, Novgorod, 1994.
- [192] I. CHARON, O. HUDRY and A. C. LOBSTEIN: Codes in the q -ary Lee hypercube, *WSEAS Transactions on Mathematics*, vol. 21, pp. 173–186, 2022.
- [193] P. CHARPIN, T. HELLESETH and V. A. ZINOVIEV: The coset distribution of triple-error-correcting binary primitive BCH codes, *IEEE Trans. Inform. Th.*, vol. 52, pp. 1727–1732, 2006.
- [194] P. CHARPIN and V. A. ZINOVIEV: On coset weight distributions of the 3-error-correcting BCH-codes, *SIAM J. Discrete Mathematics*, vol. 10, pp. 128–145, 1997.
- [195] K. CHATOUH, K. GUENDA, T. A. GULLIVER and L. NOUI: On some classes of linear codes over Z_2Z_4 and their covering radii, *Journal of Applied Mathematics and Computing*, vol. 53, pp. 201–222, 2017.
- [196] S. I. CHECHIOTA: A lower bound on the covering radius for a class of binary codes, *Izvestiya Vysshikh Uchebnykh Zavedenii Matematika*, vol. 5, pp. 84–86, 1994. Translated in: *Russian Mathematics*.
- [197] S. I. CHECHIOTA: On the limit distribution of the distance between a random vector and some binary codes, *Problemy Peredachi Informatsii*, vol. 31, No. 1, pp. 90–98, 1995. Translated in: *Problems of Inform. Transm.*, vol. 31, No. 1, pp. 78–85.
- [198] P. N. CHEN and Y. S. HAN: Asymptotic minimum covering radius of block codes, *SIAM J. Discrete Mathematics*, vol. 14, pp. 549–564, 2001.
- [199] W. CHEN and I. S. HONKALA: Lower bounds for q -ary covering codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 664–671, 1990.

- [200] W. CHEN and D. LI: Lower bounds for multiple covering codes, Preprint.
- [201] Y. C. CHEN and Y. L. SYU: Connected dominating set of hypercubes and star graphs, *Internat. Proc. Computer Science and Information Technology*, vol. 41, pp. 15–19, 2012.
- [202] N. CHIGIRA, M. HARADA and M. KITAZUME: Extremal self-dual codes of length 64 through neighbors and covering radii, *Designs, Codes and Cryptography*, vol. 42, pp. 93–101, 2007.
- [203] L. CHIHARA and D. STANTON: Zeros of generalized Krawtchouk polynomials, *J. Approx. Th.*, vol. 60, No. 1, pp. 43–57, 1990.
- [204] T. S. CHIHARA: *An Introduction to Orthogonal Polynomials*, New York: Gordon and Breach, 1978.
- [205] F. CHUNG and J. N. COOPER: De Bruijn cycles for covering codes, *Random Structures & Algorithms*, vol. 25, pp. 421–431, 2004.
- [206] V. CHVATAL: A greedy heuristic for the set-covering problem, *Mathematics of Operations Research*, vol. 4, pp. 233–235, 1979.
- [207] W. E. CLARK and L. A. DUNNING: Tight upper bounds for the domination numbers of graphs with given order and minimum degree, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_4/v4i1toc.html, R26, 1997.
- [208] W. E. CLARK, L. A. DUNNING and D. G. ROGERS: Binary set functions and parity check matrices, *Discrete Mathematics*, vol. 80, pp. 249–265, 1990.
- [209] W. E. CLARK and J. PEDERSEN: Sum-free sets in vector spaces over $GF(2)$, *J. Combinatorial Th.*, Ser. A, vol. 61, pp. 222–229, 1992.
- [210] R. F. CLAYTON: Multiple packings and coverings in algebraic coding theory, Ph. D. Thesis, University of California in Los Angeles, United States, 62 pp., 1987.
- [211] R. F. CLAYTON: Perfect multiple coverings in metric schemes, in: *Coding Theory and Design Theory. Part I: Coding Theory*, Ray-Chaudhuri, Ed., pp. 51–64, New York: Springer-Verlag, 1990.
- [212] J. C. COCK and P. R. J. ÖSTERGÅRD: Ternary covering codes derived from BCH codes, *J. Combinatorial Th.*, Ser. A, vol. 80, pp. 283–289, 1997.
- [213] G. D. COHEN: A nonconstructive upper bound on covering radius, *IEEE Trans. Inform. Th.*, vol. 29, pp. 352–353, 1983.
- [214] G. D. COHEN: Non-linear covering codes: a few results and conjectures, *Lecture Notes in Computer Science*, No. 356, pp. 225–229, Springer-Verlag, 1989.
- [215] G. D. COHEN: Covering radius and writing on memories, *Lecture Notes in Computer Science*, No. 508, pp. 1–10, Springer-Verlag, 1990.
- [216] G. D. COHEN: Applications of coding theory to communication combinatorial problems, *Discrete Mathematics*, vol. 83, pp. 237–248, 1990.

- [217] G. D. COHEN, J. L. DORNSTETTER and P. GODLEWSKI: *Codes correcteurs d'erreurs*, Paris: Masson, 1992.
- [218] G. D. COHEN and P. FRANKL: On tilings of the binary vector space, *Discrete Mathematics*, vol. 31, pp. 271–277, 1980.
- [219] G. D. COHEN and P. FRANKL: On cliques and partitions in Hamming spaces, *Annals of Discrete Mathematics*, vol. 17, pp. 211–217, 1983.
- [220] G. D. COHEN and P. FRANKL: On generalized perfect codes and Steiner systems, *Annals of Discrete Mathematics*, vol. 18, pp. 197–200, 1983.
- [221] G. D. COHEN and P. FRANKL: Good coverings of Hamming spaces with spheres, *Discrete Mathematics*, vol. 56, pp. 125–131, 1985.
- [222] G. D. COHEN and P. GODLEWSKI: Some cryptographic aspects of wom-codes, *Lecture Notes in Computer Science*, No. 218, pp. 458–467, Springer-Verlag, 1986.
- [223] G. D. COHEN, P. GODLEWSKI and F. MERKX: Linear binary codes for write-once memories, *IEEE Trans. Inform. Th.*, vol. 32, pp. 697–700, 1986.
- [224] G. D. COHEN, I. S. HONKALA and S. LITSYN: On weighted coverings and packings with diameter one, *CISM Courses and Lectures*, No. 339, pp. 43–49, Springer-Verlag, 1993.
- [225] G. D. COHEN, I. S. HONKALA, S. LITSYN and H. F. MATTSON, Jr.: Weighted coverings and packings, *IEEE Trans. Inform. Th.*, vol. 41, pp. 1856–1867, 1995.
- [226] G. D. COHEN, I. S. HONKALA, S. LITSYN and P. SOLÉ: Long packing and covering codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1617–1619, 1997.
- [227] G. D. COHEN, M. G. KARPOVSKY, H. F. MATTSON, Jr., and J. R. SCHATZ: Covering radius — survey and recent results, *IEEE Trans. Inform. Th.*, vol. 31, pp. 328–343, 1985.
- [228] G. D. COHEN and S. LITSYN: On the covering radius of Reed-Muller codes, *Discrete Mathematics*, vol. 106/107, pp. 147–155, 1992.
- [229] G. D. COHEN, S. LITSYN, A. C. LOBSTEIN and H. F. MATTSON, Jr.: Covering radius 1985-1994, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, 67 pp., 1997.
- [230] G. D. COHEN, S. LITSYN and H. F. MATTSON, Jr.: On perfect weighted coverings with small radius, *Lecture Notes in Computer Science*, No. 573, pp. 32–41, Springer-Verlag, 1992.
- [231] G. D. COHEN, S. LITSYN and H. F. MATTSON, Jr.: Binary perfect weighted coverings, I, The linear case, in: *Sequences II*, Capocelli, DeSantis and Vaccaro, Eds., pp. 36–51, Springer-Verlag, 1993.
- [232] G. D. COHEN, S. LITSYN, A. VARDY and G. ZÉMOR: Tilings of binary spaces, *SIAM J. Discrete Mathematics*, vol. 9, pp. 393–412, 1996.
- [233] G. D. COHEN, S. LITSYN and G. ZÉMOR: Upper bounds on generalized distances, *IEEE Trans. Inform. Th.*, vol. 40, pp. 2090–2092, 1994.

- [234] G. D. COHEN, S. LITSYN and G. ZÉMOR: On greedy algorithms in coding theory, *IEEE Trans. Inform. Th.*, vol. 42, pp. 2053–2057, 1996.
- [235] G. D. COHEN, A. C. LOBSTEIN and N. J. A. SLOANE: Further results on the covering radius of codes, *IEEE Trans. Inform. Th.*, vol. 32, pp. 680–694, 1986.
- [236] G. D. COHEN, A. C. LOBSTEIN and N. J. A. SLOANE: On a conjecture concerning coverings of Hamming space, *Lecture Notes in Computer Science*, No. 228, pp. 79–89, Springer-Verlag, 1986.
- [237] G. D. COHEN and B. MONTARON: Empilements parfaits de boules dans les espaces vectoriels binaires, *Comptes-Rendus de l'Académie des Sciences*, Ser. A, vol. 288, pp. 578–582, 1979.
- [238] G. D. COHEN, J. RIFÁ, J. TENA and G. ZÉMOR: On the characterization of linear uniquely decodable codes, *Designs, Codes and Cryptography*, vol. 17, pp. 87–96, 1999.
- [239] G. D. COHEN, J. RIFÁ and G. ZÉMOR: Uniquely decodable codes, *Proc. IEEE Workshop on Information Theory*, p. 77, Longyearbyen, 1997.
- [240] G. D. COHEN and G. SIMONYI: Coding for write-unidirectional memories and conflict resolution, *Discrete Applied Mathematics*, vol. 24, pp. 103–114, 1989.
- [241] G. COHEN and A. VARDY: Duality between packings and coverings of the Hamming space, *Advances in Mathematics of Communications*, vol. 1, pp. 93–97, 2007.
- [242] G. D. COHEN and G. ZÉMOR: An application of combinatorial group theory to coding, *Ars Combinatoria*, vol. 23-A, pp. 81–89, 1987.
- [243] G. D. COHEN and G. ZÉMOR: Write-isolated memories, *Discrete Mathematics*, vol. 114, pp. 105–113, 1993.
- [244] G. D. COHEN and G. ZÉMOR: Intersecting codes and independent families, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1872–1881, 1994.
- [245] G. D. COHEN and G. ZÉMOR: Subset sums and coding theory, *Astérisque*, vol. 258, pp. 327–339, 1999.
- [246] S. D. COHEN: The length of primitive BCH codes with minimal covering radius, *Designs, Codes and Cryptography*, vol. 10, pp. 5–16, 1997.
- [247] S. D. COHEN and N. N. KUZJURIN: On the packing radius and the covering radius of equal-weight codes, *Discrete Mathematics*, vol. 213, pp. 35–42, 2000.
- [248] M. COHN: On the channel capacity of read/write isolated memory, *Discrete Applied Mathematics*, vol. 56, pp. 1–8, 1995.
- [249] C. J. COLBOURN, G. KÉRI, P. P. RIVAS SORIANO and J. C. SCHLAGE-PUCHTA: Covering and radius-covering arrays: constructions and classification, *Discrete Applied Mathematics*, vol. 158, pp. 1158–1180, 2010.

- [250] J. H. CONWAY and N. J. A. SLOANE: *Sphere Packings, Lattices, and Groups*, New York: Springer-Verlag, 1988.
- [251] J. N. COOPER, R. B. ELLIS and A. B. KAHNG: Asymmetric binary covering codes, *J. Combinatorial Th.*, Ser. A, vol. 100, pp. 232–249, 2002.
- [252] T. M. COVER and J. A. THOMAS: *Elements of Information Theory*, New York: Wiley, 1991.
- [253] P. CRESCENZI and F. GRECO: The minimum likely column cover problem, *Information Processing Letters*, vol. 89, pp. 175–179, 2004.
- [254] M. CRUZ, C. DURAIRAJAN and P. SOLÉ: On the covering radius of codes over Z_{p^k} , *Mathematics*, vol. 8(3), Article 328, 2020.
- [255] I. CSISZÁR and J. KÖRNER: *Information Theory: Coding Theorems for Discrete Memoryless Systems*, New York: Academic Press, 1981.
- [256] D. M. CVETKOVIĆ and J. H. van LINT: An elementary proof of Lloyd’s theorem, *Proc. Kon. Ned. Akad. v. Wetensch.* (a), vol. 80, pp. 6–10, 1977.
- [257] D. DANEV and S. DODUNEKOV: A family of ternary quasi-perfect BCH codes, *Designs, Codes and Cryptography*, vol. 49, pp. 265–271, 2008.
- [258] D. DANEV, S. DODUNEKOV and D. RADKOVA: A family of constacyclic ternary quasi-perfect codes with covering radius 3, *Designs, Codes and Cryptography*, vol. 59, pp. 111–118, 2011.
- [259] E. DANTSIN, A. GOERDT, E. A. HIRSCH, R. KANNAN, J. KLEINBERG, C. PAPADIMITRIOU, P. RAGHAVAN and U. SCHÖNING: A deterministic $(2 - 2/(k + 1))^n$ algorithm for k -SAT based on local search, *Theoretical Computer Science*, vol. 289, No. 1, pp. 69–83, 2002.
- [260] E. DANTSIN, A. GOERDT, E. A. HIRSCH and U. SCHÖNING: Deterministic algorithms for k -SAT based on covering codes and local search, *Lecture Notes in Computer Science*, No. 1853, pp. 236–247, Springer-Verlag, 2000.
- [261] E. DANTSIN and E. A. HIRSCH: Algorithms for k -SAT based on covering codes, Preprint, 2000.
- [262] E. DANTSIN, E. A. HIRSCH and A. WOLPERT: Algorithms for SAT based on search in Hamming balls, *Lecture Notes in Computer Science*, No. 2996, pp. 141–151, Springer-Verlag, 2004.
- [263] R. DAVIES and G. F. ROYLE: Graph domination, tabu search and the football pool problem, *Discrete Applied Mathematics*, vol. 74, pp. 217–228, 1997.
- [264] A. A. DAVYDOV: Construction of linear covering codes, *Problemy Peredachi Informatsii*, vol. 26, No. 4, pp. 38–55, 1990. Translated in: *Problems of Inform. Transm.*, vol. 26, No. 4, pp. 317–331.
- [265] A. A. DAVYDOV: Constructions and families of q -ary linear covering codes and saturated sets of points in projective geometry, *Proc. Fifth Joint Soviet-Swedish Internat. Workshop on Information Theory*, pp. 46–49, Moscow, 1991.

- [266] A. A. DAVYDOV: Constructions of codes with covering radius 2, *Lecture Notes in Computer Science*, No. 573, pp. 23–31, Springer-Verlag, 1992.
- [267] A. A. DAVYDOV: On constructions of nonlinear covering codes, *Proc. Seventh Joint Swedish-Russian Internat. Workshop on Information Theory*, pp. 67–71, St-Petersburg, 1995.
- [268] A. A. DAVYDOV: Constructions and families of covering codes and saturated sets of points in projective geometry, *IEEE Trans. Inform. Th.*, vol. 41, pp. 2071–2080, 1995.
- [269] A. A. DAVYDOV: On nonbinary linear codes with covering radius two, *Proc. 5th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 105–110, Sozopol, 1996.
- [270] A. A. DAVYDOV: Constructions of nonlinear covering codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1639–1647, 1997.
- [271] A. A. DAVYDOV: Constructions and families of nonbinary linear codes with covering radius 2, *IEEE Trans. Inform. Th.*, vol. 45, pp. 1679–1686, 1999.
- [272] A. A. DAVYDOV: New constructions of covering codes, *Designs, Codes and Cryptography*, vol. 22, pp. 305–316, 2001.
- [273] A. A. DAVYDOV and A. Y. DROZHZHINA-LABINSKAYA: Binary linear codes with covering radii 3 and 4, *Proc. 2nd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 56–57, Leningrad, 1990.
- [274] A. A. DAVYDOV and A. Y. DROZHZHINA-LABINSKAYA: Table and families of short $[n, n - r]$ codes with a given covering radius R , Preprint, 1990.
- [275] A. A. DAVYDOV and A. Y. DROZHZHINA-LABINSKAYA: Constructions of binary linear covering codes, *Proc. 3rd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 51–54, Voneshta Voda, 1992.
- [276] A. A. DAVYDOV and A. Y. DROZHZHINA-LABINSKAYA: Constructions, families, and tables of binary linear covering codes, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1270–1279, 1994.
- [277] A. A. DAVYDOV, G. FAINA, S. MARCUGINI and F. PAMBIANCO: Locally optimal (nonshortening) linear covering codes and minimal saturating sets in projective spaces, *IEEE Trans. Inform. Th.*, vol. 51, pp. 4378–4387, 2005.
- [278] A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: Linear covering codes over nonbinary finite fields, *Proc. XI Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 70–75, Pamporovo, 2008.
- [279] A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: Linear covering codes of radius 2 and 3, *Proc. Workshop Coding Theory Days in St. Petersburg*, pp. 12–17, St. Petersburg, 2008.

- [280] A. A. DAVYDOV, M. GIULIETTI, S. MARCUGINI and F. PAMBIANCO: Linear nonbinary covering codes and saturating sets in projective spaces, *Advances in Mathematics of Communications*, vol. 5, pp. 119–147, 2011.
- [281] A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: On saturating sets in projective spaces, *J. Combinatorial Th.*, Ser. A, vol. 103, pp. 1–15, 2003.
- [282] A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: Linear codes with covering radius 2, 3 and saturating sets in projective geometry, *IEEE Trans. Inform. Th.*, vol. 50, pp. 537–541, 2004.
- [283] A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: Minimal 1-saturating sets and complete caps in binary projective spaces, *J. Combinatorial Th.*, Ser. A, vol. 113, pp. 647–663, 2006.
- [284] A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: New covering codes of radius R , codimension tR and $tR + \frac{R}{2}$, and saturating sets in projective spaces, *Designs, Codes and Cryptography*, vol. 87(12), pp. 2771–2792, 2019.
- [285] A. A. DAVYDOV, S. MARCUGINI and F. PAMBIANCO: Bounds for complete arcs in $PG(3, q)$ and covering codes of radius 3, codimension 4, under a certain probabilistic conjecture, *Lecture Notes in Computer Science*, No. 12249, pp. 107–122, Springer, 2020.
- [286] A. A. DAVYDOV and P. R. J. ÖSTERGÅRD: New linear codes with covering radius 2 and odd basis, *Designs, Codes and Cryptography*, vol. 16, pp. 29–39, 1999.
- [287] A. A. DAVYDOV and P. R. J. ÖSTERGÅRD: New quaternary linear codes with covering radius 2, *Finite Fields Appl.*, vol. 6, pp. 164–174, 2000.
- [288] A. A. DAVYDOV and P. R. J. ÖSTERGÅRD: Linear codes with covering radius $R = 2, 3$ and codimension tR , *IEEE Trans. Inform. Th.*, vol. 47, pp. 416–421, 2001.
- [289] A. A. DAVYDOV and P. R. J. ÖSTERGÅRD: Linear codes with covering radius 3, *Designs, Codes and Cryptography*, vol. 54, pp. 253–271, 2010.
- [290] A. A. DAVYDOV and L. M. TOMBAK: Quasiperfect linear binary codes with distance 4 and complete caps in projective geometry, *Problemy Peredachi Informatsii*, vol. 25, No. 4, pp. 11–23, 1989. Translated in: *Problems of Inform. Transm.*, vol. 25, No. 4, pp. 265–275.
- [291] I. J. DEJTER and K. T. PHELPS: Ternary Hamming and binary perfect covering codes, *Proc. DIMACS Workshop on Codes and Association Schemes*, vol. 56, pp. 111–113, 2001.
- [292] P. DELIGNE: La conjecture de Weil I, *Instit. Hautes Etudes Sci., Publ. Math.*, vol. 43, pp. 273–307, 1974.
- [293] C. DELORME and P. SOLÉ: Diameter, covering index, covering radius and eigenvalues, *European J. Combinatorics*, vol. 12, pp. 95–108, 1991.
- [294] C. DELORME and J. P. TILLICH: Eigenvalues, eigenspaces and distances to subsets, *Discrete Mathematics*, vol. 165/166, pp. 171–194, 1997.

- [295] P. DELSARTE: An algebraic approach to the association schemes of coding theory, Philips Research Reports Supplements, No. 10, 1973.
- [296] P. DELSARTE: Four fundamental parameters of a code and their combinatorial significance, *Information and Control*, vol. 23, pp. 407–438, 1973.
- [297] P. DELSARTE and J.-M. GOETHALS: Unrestricted codes with the Golay parameters are unique, *Discrete Mathematics*, vol. 12, pp. 211–224, 1975.
- [298] P. DELSARTE and P. PIRET: Do most binary linear codes achieve the Gobleck bound on the covering radius?, *IEEE Trans. Inform. Th.*, vol. 32, pp. 826–828, 1986.
- [299] Y. DESAKI, T. FUJIWARA and T. KASAMI: The weight distributions of extended binary primitive BCH codes of length 128, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1364–1371, 1997.
- [300] M. DEZA: The effectiveness of noise correction or detection, *Problemy Peredachi Informatsii*, vol. 1, No. 3, pp. 29–39, 1965 (in Russian).
- [301] M. DEZA and F. HOFFMAN: Some results related to generalized Varshamov-Gilbert bound, *IEEE Trans. Inform. Th.*, vol. 23, pp. 517–518, 1977.
- [302] M. DEZA, M. G. KARPOVSKY and V. MILMAN: Codes correcting an arbitrary set of errors, *Revue CETHEDDEC*, vol. 66, pp. 65–76, 1981.
- [303] F. DI PASQUALE and P. R. J. ÖSTERGÅRD: An improved upper bound for the football pool problem for nine matches, *J. Combinatorial Th.*, Ser. A, vol. 102, pp. 204–206, 2003.
- [304] P. DIACONIS and R. L. GRAHAM: The Radon transform on \mathbf{Z}_2^k , *Pacific J. Math.*, vol. 118, pp. 323–345, 1985.
- [305] J. F. DILLON: A survey of bent functions, *NCA Tech. J.*, pp. 191–215, 1972.
- [306] S. M. DODUNEKOV: The optimal double-error-correcting codes of Zetterberg and Dumer-Zinoviev are quasiperfect, *Comptes-Rendus de l'Académie Bulgare des Sciences*, vol. 38, pp. 1121–1123, 1985.
- [307] S. M. DODUNEKOV: Some quasi-perfect double error correcting codes, *Problemy Upravleniya i Teorii Informatsii*, vol. 15, No. 5, pp. 367–375, 1986. Translated in: *Problems of Control and Information Th.*, vol. 15, No. 5.
- [308] S. M. DODUNEKOV: Griesmer codes with maximum covering radius, *Problemy Peredachi Informatsii*, vol. 23, No. 4, pp. 110–113, 1987. Translated in: *Problems of Inform. Transm.*, vol. 23, No. 4, pp. 344–346.
- [309] S. M. DODUNEKOV and S. B. ENCHEVA: Uniqueness of some linear subcodes of the extended binary Golay code, *Problemy Peredachi Informatsii*, vol. 29, No. 1, pp. 45–51, 1993. Translated in: *Problems of Inform. Transm.*, vol. 29, No. 1, pp. 38–43.
- [310] S. M. DODUNEKOV, K. N. MANEV and V. D. TONCHEV: On the covering radius of binary $[14, 6]$ codes containing the all-one vector, *IEEE Trans. Inform. Th.*, vol. 34, pp. 591–593, 1988.

- [311] S. M. DODUNEKOV and N. L. MANEV: An improvement of the Griesmer bound for some small minimum distances, *Discrete Applied Mathematics*, vol. 12, pp. 103–114, 1985.
- [312] S. M. DODUNEKOV and N. L. MANEV: On the minimum distance of binary linear codes with the smallest possible covering radius, *Annuaire de l'Université de Sofia, Faculté de Mathématiques et Informatique*, vol. 81, pp. 237–241, 1987.
- [313] S. M. DODUNEKOV and N. L. MANEV: Covering radius of optimal binary $[15, 6, 6]$ codes, *Proc. Third Soviet-Swedish Internat. Workshop on Information Theory*, pp. 64–66, Sochi, 1987 (in Russian).
- [314] D. DOLEV, D. MAIER, H. MAIRSON and J. ULLMAN: Correcting faults in write-once memory, *Assoc. for Computing Machinery*, pp. 225–229, 1984.
- [315] P. DORBEC, S. GRAVIER, I. HONKALA and M. MOLLARD: Weighted perfect codes in Lee metric, *Electronic Notes in Discrete Mathematics*, vol. 34, pp. 477–481, 2009.
- [316] R. L. DOUGHERTY and H. JANWA: Covering radius computations for binary cyclic codes, *Mathematics of Computation*, vol. 57, pp. 415–434, 1991.
- [317] R. L. DOUGHERTY, R. D. MAULDIN and M. TIEFENBRUCK: The covering radius of the Reed-Muller code $RM(m - 4, m)$ in $RM(m - 3, m)$, *IEEE Trans. Inform. Th.*, vol. 68, pp. 560–571, 2022.
- [318] D. E. DOWNIE and N. J. A. SLOANE: The covering radius of cyclic codes of length up to 31, *IEEE Trans. Inform. Th.*, vol. 31, pp. 446–447, 1985.
- [319] W. DUCKWORTH, P. E. DUNNE, A. M. GIBBONS and M. ZITO: Leafy spanning trees in hypercubes, *Applied Mathematics Letters*, vol. 14, pp. 801–804, 2001.
- [320] I. I. DUMER: Asymptotically optimal codes correcting memory defects of fixed multiplicity, *Problemy Peredachi Informatsii*, vol. 25, No. 4, pp. 3–10, 1989. Translated in: *Problems of Inform. Transm.*, vol. 25, No. 4, pp. 259–265.
- [321] I. I. DUMER: Concatenated codes and their multilevel generalizations, in: *Handbook of Coding Theory*, Pless and Huffman, Eds., Chapter 23, Elsevier, 1998.
- [322] A. DŮR: The decoding of extended Reed-Solomon codes, *Discrete Mathematics*, vol. 90, pp. 21–40, 1991.
- [323] A. DŮR: Complete decoding of doubly-extended Reed-Solomon codes of minimum distance 5 and 6, *Discrete Applied Mathematics*, vol. 33, pp. 95–107, 1991.
- [324] A. DŮR: On the covering radius of Reed-Solomon codes, *Discrete Mathematics*, vol. 126, pp. 99–105, 1994.
- [325] C. DURAIRAJAN: On covering codes and covering radius of some optimal codes, Ph. D. Thesis, Department of Mathematics, IIT Kanpur, India, 1996.
- [326] T. DVOŘÁK, I. HAVEL and M. MOLLARD: On paths and cycles dominating hypercubes, *Discrete Mathematics*, vol. 262, pp. 121–129, 2003.

- [327] I. DVORÁKOVÁ-RULÍKOVÁ: Perfect codes in regular graphs, *Commentationes Mathematicae Universitatis Carolinae*, No. 29, pp. 79–83, 1988.
- [328] C. van EIJL, G. D. COHEN and G. ZÉMOR: Error-correction for WIMs and WUMs, *Lecture Notes in Computer Science*, No. 539, pp. 159–170, Springer-Verlag, 1991.
- [329] A. A. EL GAMAL, L. A. HEMACHANDRA, I. SHPERLING and V. K. WEI: Using simulated annealing to design good codes, *IEEE Trans. Inform. Th.*, vol. 33, pp. 116–123, 1987.
- [330] D. ELIMELECH, M. FIRER and M. SCHWARTZ: The generalized covering radii of linear codes, *IEEE Trans. Inform. Th.* vol. 67, pp. 8070–8085, 2021.
- [331] D. ELIMELECH, H. WEI and M. SCHWARTZ: On the generalized covering radii of Reed-Muller codes, *IEEE Trans. Inform. Th.* vol. 68, pp. 4378–4391, 2022.
- [332] R. B. ELLIS: Density of constant radius normal binary covering codes, *Discrete Mathematics*, vol. 308, pp. 4446–4459, 2008.
- [333] R. B. ELLIS and C. H. YAN: Ulam’s pathological liar game with one half-lie, *Internat. J. Mathematics and Mathematical Sciences*, vol. 29–32, pp. 1523–1532, 2004.
- [334] M. H. EL-ZAHAR and M. K. KHAIRAT: On the weight distribution of the coset leaders of the first-order Reed-Muller code, *IEEE Trans. Inform. Th.*, vol. 33, pp. 744–747, 1987.
- [335] S. B. ENCHEVA: On binary linear codes which satisfy the two-way chain condition, *IEEE Trans. Inform. Th.*, vol. 42, pp. 1038–1047, 1996.
- [336] M. ESMAEILI and A. ZAGHIAN: Covering radius of binary codes having parity-check matrices with constant-weight columns, *Utilitas Mathematica*, vol. 77, pp. 225–233, 2008.
- [337] M. ESMAEILI and A. ZAGHIAN: On the combinatorial structure of a class of $[(\binom{m}{2}, \binom{m-1}{2}), 3]$ shortened Hamming codes and their dual-codes, *Discrete Applied Mathematics*, vol. 157, pp. 356–363, 2009.
- [338] M. ESMAEILI and A. ZAGHIAN: On covering radius of a family of codes $\mathcal{C}_m \cup (\mathbf{1} + \mathcal{C}_m)$ with maximum distance between \mathcal{C}_m and $\mathbf{1} + \mathcal{C}_m$, *Utilitas Mathematica*, vol. 78, pp. 151–158, 2009.
- [339] G. ETIENNE: Perfect codes and regular partitions in graphs and groups, *European J. Combinatorics*, vol. 8, pp. 139–144, 1987.
- [340] T. ETZION: On the nonexistence of perfect codes in the Johnson scheme, *SIAM J. Discrete Mathematics*, vol. 9, pp. 201–209, 1996.
- [341] T. ETZION: Nonequivalent q -ary perfect codes, *SIAM J. Discrete Mathematics*, vol. 9, pp. 413–423, 1996.
- [342] T. ETZION and G. GREENBERG: Constructions of perfect mixed codes and other covering codes, *IEEE Trans. Inform. Th.*, vol. 39, pp. 209–214, 1993.

- [343] T. ETZION, G. GREENBERG and I. S. HONKALA: Normal and abnormal codes, *IEEE Trans. Inform. Th.*, vol. 39, pp. 1453–1456, 1993.
- [344] T. ETZION and B. MOUNITS: Quasi-perfect codes with small distance, *IEEE Trans. Inform. Th.*, vol. 51, pp. 3938–3946, 2005.
- [345] T. ETZION and A. VARDY: Perfect binary codes: constructions, properties, and enumeration, *IEEE Trans. Inform. Th.*, vol. 40, pp. 754–763, 1994.
- [346] T. ETZION and A. VARDY: On perfect codes and tilings: problems and solutions, *SIAM J. Discrete Mathematics*, vol. 11, pp. 205–223, 1998.
- [347] T. ETZION, V. K. WEI and Z. ZHANG: Bounds on the sizes of constant weight covering codes, *Designs, Codes and Cryptography*, vol. 5, pp. 217–239, 1995.
- [348] E. FACHINI and J. KÖRNER: Tight packings of Hamming spheres, *J. Combinatorial Th.*, Ser. A, vol. 76, pp. 292–294, 1996.
- [349] G. FANG: Binary block codes for correcting asymmetric or unidirectional errors, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 97 pp., 1993.
- [350] G. FANG, H. C. A. van TILBORG and F. W. SUN: Weakly perfect binary block codes for correcting asymmetric errors, *Proc. Internat. Symp. on Communications*, pp. 57–60, Tainan, Taiwan, 1991.
- [351] G. FANG, H. C. A. van TILBORG and F. W. SUN: On uniformly weakly perfect codes for correcting asymmetric errors; some bounds and constructions, *Collection of Papers Dedicated to the Memory of David Gevorkian*, to appear.
- [352] G. FANG, H. C. A. van TILBORG, F. W. SUN and I. S. HONKALA: Some features of binary block codes for correcting asymmetric errors, *Lecture Notes in Computer Science*, No. 673, pp. 105–120, Springer-Verlag, 1993.
- [353] G. FAZEKAS and V. I. LEVENSHTEIN: On upper bounds for code distance and covering radius of designs in polynomial metric spaces, *Proc. Fifth Joint Soviet-Swedish Internat. Workshop on Information Theory*, pp. 65–68, Moscow, 1991.
- [354] G. FAZEKAS and V. I. LEVENSHTEIN: On upper bounds for code distance and covering radius of designs in polynomial metric spaces, *J. Combinatorial Th.*, Ser. A, vol. 70, pp. 267–288, 1995.
- [355] U. FEIGE, M. M. HALLDÓRSSON, G. KORTSARZ and A. SRINIVASAN: Approximating the domatic number, *SIAM J. Comput.*, vol. 32, pp. 172–195, 2002.
- [356] L. FEJES TÓTH: *Lagerungen in der Ebene, auf der Kugel und in Raum*, 2nd ed., Springer-Verlag, 1972.
- [357] M. R. FELLOWS: Encoding graphs in graphs, Ph. D. Thesis, University of California, San Diego, United States, 112 pp., 1985.
- [358] M. R. FELLOWS: Data structures for reluctant media, Internal Report CS-86-144, Washington State University, United States, 1986.

- [359] H. FERNANDES and E. RECHTSCHAFFEN: The football pool problem for 7 and 8 matches, *J. Combinatorial Th.*, Ser. A, vol. 35, pp. 109–114, 1983.
- [360] P. C. FISHBURN and N. J. A. SLOANE: The solution to Berlekamp’s switching game, *Discrete Mathematics*, vol. 74, pp. 263–290, 1989.
- [361] C. FONTAINE: On some cosets of the first-order Reed-Muller code with high minimum weight, *IEEE Trans. Inform. Th.*, vol. 45, pp. 1237–1243, 1999.
- [362] G. D. FORNEY, Jr.: *Concatenated Codes*, Cambridge, MA: MIT Press, 1966.
- [363] M. K. FORT, Jr., and G. A. HEDLUND: Minimal coverings of pairs by triples, *Pacific J. Math.*, vol. 8, pp. 709–719, 1958.
- [364] R. FOURQUET and C. TAVERNIER: An improved list decoding algorithm for the second order Reed-Muller codes and its applications, *Designs, Codes and Cryptography*, vol. 49, pp. 323–340, 2008.
- [365] M. FRANCES and A. LITMAN: On covering problems of codes, Technical Report No. 827, Technion, Haifa, Israel, 8 pp., 1994.
- [366] M. FRANCES and A. LITMAN: On covering problems of codes, *Theory of Computing Systems*, vol. 30, No. 2, pp. 113–119, 1997.
- [367] R. FRANKEN and S. D. COHEN: The covering radius of some primitive ternary BCH codes, *Lecture Notes in Computer Science*, No. 2948, pp. 166–180, Springer-Verlag, 2004.
- [368] G. FREIMAN, E. LIPKIN and L. LEVITIN: A polynomial algorithm for constructing families of k -independent sets, *Discrete Mathematics*, vol. 70, pp. 137–147, 1988.
- [369] J. FRIDRICH, P. LISONĚK and D. SOUKAL: On steganographic embedding efficiency, *Lecture Notes in Computer Science*, No. 4437, pp. 282–296, Springer-Verlag, 2007.
- [370] F. W. FU and R. W. YEUNG: On the capacity and error-correcting codes of write-efficient memories, *IEEE Trans. Inform. Th.*, vol. 46, pp. 2299–2314, 2000.
- [371] Z. FÜREDI, G. J. SZÉKELY and Z. ZUBOR: On the lottery problem, *J. Combinatorial Designs*, vol. 4, pp. 5–10, 1996.
- [372] E. M. GABIDULIN, A. A. DAVYDOV and L. M. TOMBAK: Codes of covering radius 2 and other new covering codes, *Proc. 10th All-Union Symp. on Redundancy Problems in Information Systems*, part I, pp. 14–17, Leningrad, 1989 (in Russian).
- [373] E. M. GABIDULIN, A. A. DAVYDOV and L. M. TOMBAK: Linear codes with covering radius 2 and other new covering codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 219–224, 1991.
- [374] E. M. GABIDULIN and T. KLØVE: On the Newton and covering radii of linear codes, *IEEE Trans. Inform. Th.*, vol. 45, pp. 2534–2536, 1999.
- [375] M. GADOULEAU: Algebraic codes for random linear network coding, Ph. D. Thesis, Lehigh University, United States, 197 pp., 2009.

- [376] M. GADOULEAU and Z. YAN: Properties of codes with the rank metric, *Proc. IEEE Global Communications Conf.*, pp. 1–5, San Francisco, 2006.
- [377] M. GADOULEAU and Z. YAN: Covering properties of rank metric codes, *Proc. IEEE Global Communications Conf.*, pp. 1446–1450, Washington, 2007.
- [378] M. GADOULEAU and Z. YAN: Packing and covering properties of rank metric codes, *IEEE Trans. Inform. Th.*, vol. 54, pp. 3873–3883, 2008.
- [379] M. GADOULEAU and Z. YAN: Bounds on covering codes with the rank metric, *IEEE Communications Letters*, vol. 13, pp. 691–693, 2009.
- [380] M. GADOULEAU and Z. YAN: Construction and covering properties of constant-dimension codes, *Proc. IEEE Symp. on Information Theory*, pp. 2221–2225, Seoul, 2009.
- [381] M. GADOULEAU and Z. YAN: Packing and covering properties of subspace codes, *Proc. IEEE Symp. on Information Theory*, pp. 2867–2871, Seoul, 2009.
- [382] M. GADOULEAU and Z. YAN: Packing and covering properties of subspace codes for error control in random linear network coding, *IEEE Trans. Inform. Th.*, vol. 56, pp. 2097–2108, 2010.
- [383] F. GALAND: Constructions de codes Z_{p^k} -linéaires de bonne distance minimale et schémas de dissimulation fondés sur les codes de recouvrement, Thèse, INRIA et Université de Caen, France, 2004.
- [384] F. GALAND and G. A. KABATYANSKII: Information hiding by coverings, *Proc. IEEE Symp. on Information Theory*, pp. 151–154, Paris, 2003.
- [385] F. GALAND and G. A. KABATYANSKII: Steganography via covering codes, *Proc. IEEE Symp. on Information Theory*, p. 192, Yokohama, 2003.
- [386] F. GALAND and G. A. KABATYANSKII: Coverings, centered codes, and combinatorial steganography, *Problemy Peredachi Informatsii*, vol. 45, No. 3, pp. 106–111, 2009. Translated in: *Problems of Inform. Transm.*, vol. 45, No. 3, pp. 289–294.
- [387] R. G. GALLAGER: *Information Theory and Reliable Communication*, New York: Wiley, 1968.
- [388] M. R. GAREY and D. S. JOHNSON: *Computers and Intractability, a Guide to the Theory of NP-Completeness*, New York: Freeman, 1979.
- [389] L. GARGANO, J. KÖRNER and U. VACCARO: Sperner capacities, *Graphs and Combinatorics*, vol. 9, pp. 31–46, 1993.
- [390] L. GARGANO, J. KÖRNER and U. VACCARO: Capacities: from information theory to extremal set theory, *J. Combinatorial Th.*, Ser. A, vol. 68, pp. 296–316, 1994.
- [391] D. GIJSWIJT: Matrix algebras and semidefinite programming techniques for codes, Ph. D. Thesis, University of Amsterdam, the Netherlands, 93 pp., 2005.
- [392] E. N. GILBERT: A comparison of signalling alphabets, *Bell Syst. Tech. J.*, vol. 31, pp. 504–522, 1952.

- [393] M. GIULIETTI: On small dense sets in Galois planes, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_14/v14i1toc.html, R75, 2007.
- [394] M. GIULIETTI: The geometry of covering codes: Small complete caps and saturating sets in Galois spaces, in: *Surveys in Combinatorics*, Blackburn, Holloway and Wildon, Eds., pp. 51–90, Cambridge University Press, 2013.
- [395] M. GIULIETTI and F. PASTICCI: Quasi-perfect linear codes with minimum distance 4, *IEEE Trans. Inform. Th.*, vol. 53, pp. 1928–1935, 2007.
- [396] T. J. GOBLICK, Jr.: Coding for a discrete information source with a distortion measure, Ph. D. Thesis, Massachusetts Institute of Technology, Cambridge, United States, 1962.
- [397] P. GODLEWSKI: Wom-codes construits à partir des codes de Hamming, *Discrete Mathematics*, vol. 65, pp. 237–243, 1987.
- [398] P. GODLEWSKI and G. D. COHEN: Authorized writing for “write-once” memories, *Lecture Notes in Computer Science*, No. 219, pp. 111–115, Springer-Verlag, 1986.
- [399] J.-M. GOETHALS and S. L. SNOVER: Nearly perfect binary codes, *Discrete Mathematics*, vol. 3, pp. 65–88, 1972.
- [400] J.-M. GOETHALS and H. C. A. van TILBORG: Uniformly packed codes, Philips Research Reports, vol. 30, pp. 9–36, 1975.
- [401] M. J. E. GOLAY: Notes on digital coding, *Proc. IEEE*, vol. 37, p. 657, 1949. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., p. 13, IEEE Press, 1974.
- [402] S. W. GOLOMB and E. C. POSNER: Rook domains, Latin squares, affine planes, and error-distributing codes, *IEEE Trans. Inform. Th.*, vol. 10, pp. 196–208, 1964.
- [403] S. W. GOLOMB and L. R. WELCH: Algebraic coding and the Lee metric, in: *Error Correcting Codes*, Mann, Ed., pp. 175–194, New York: Wiley, 1968.
- [404] S. W. GOLOMB and L. R. WELCH: Perfect codes in the Lee metric and the packing of polyominoes, *SIAM J. Applied Mathematics*, vol. 18, pp. 302–317, 1970.
- [405] G. GOMMARD and A. PLAGNE: $K_5(7, 3) \leq 100$, *J. Combinatorial Th.*, Ser. A, vol. 104, pp. 365–370, 2003.
- [406] D. M. GORDON: Perfect multiple error-correcting arithmetic codes, *Mathematics of Computation*, vol. 49, pp. 621–633, 1987.
- [407] D. M. GORDON, O. PATASHNIK and G. KUPERBERG: New constructions for covering designs, *J. Combinatorial Designs*, vol. 3, pp. 269–284, 1995.
- [408] D. M. GORDON, O. PATASHNIK, G. KUPERBERG and J. H. SPENCER: Asymptotically optimal covering designs, *J. Combinatorial Th.*, Ser. A, vol. 75, pp. 270–280, 1996.

- [409] Y. GORDON and H. S. WITSENHAUSEN: On extensions of the Gale-Berlekamp switching problem and constants of ℓ_p -spaces, *Israel J. Math.*, vol. 11, pp. 216–229, 1972.
- [410] D. GORENSTEIN, W. W. PETERSON and N. ZIERLER: Two-error correcting Bose-Chaudhury codes are quasi-perfect, *Information and Control*, vol. 3, pp. 291–294, 1960.
- [411] R. L. GRAHAM and N. J. A. SLOANE: On the covering radius of codes, *IEEE Trans. Inform. Th.*, vol. 31, pp. 385–401, 1985.
- [412] J. H. GRIESMER: A bound for error-correcting codes, *IBM J. Res. Develop.*, vol. 4, pp. 532–542, 1960.
- [413] J. R. GRIGGS: Spanning trees and domination in hypercubes, *Integers*, vol. 21A (Ron Graham Memorial Volume), Paper No. A13, 11 pp., 2021.
- [414] J. GU and X. CAO: On the covering radius of Melas codes, *International Journal of Pure and Applied Mathematics*, vol. 107(2), pp. 479–485, 2016.
- [415] GUAVA: Extensions to GUAVA, <http://www.gap-system.org/pkg/guava/htm/CHAP007.htm>
- [416] M. GUNDLACH: On codes with distinct protective radii, *Atti Sem. Mat. Fis. Univ. Modena*, vol. 32, pp. 372–396, 1983.
- [417] M. GUNDLACH: On strongly tactical codes, *Lecture Notes in Computer Science*, No. 229, pp. 17–26, Springer-Verlag, 1986.
- [418] Q. GUO, T. JOHANSSON and C. LÖNDAHL: Solving LPN using covering codes, *Lecture Notes in Computer Science*, No. 8873, pp. 1–20, Springer-Verlag, 2014.
- [419] Q. GUO, T. JOHANSSON and C. LÖNDAHL: Solving LPN using covering codes, *Journal of Cryptology*, vol. 33(1), pp. 1–33, 2020.
- [420] M. K. GUPTA and C. DURAIRAJAN: On the covering radius of some modular codes, *Advances in Mathematics of Communications*, vol. 8, pp. 129–137, 2014.
- [421] V. GURUSWAMI, D. MICCIANCIO and O. REGEV: The complexity of the covering radius problem, *Computational Complexity*, vol. 14, pp. 90–121, 2005.
- [422] W. HAAS: Lower bounds for q -ary codes of covering radius one, *Discrete Mathematics*, vol. 219, No. 1–3, pp. 97–106, 2000.
- [423] W. HAAS: Binary and ternary codes of covering radius one: some new lower bounds, *Discrete Mathematics*, vol. 256, No. 1–2, pp. 161–178, 2002.
- [424] W. HAAS: Lower bounds for the football pool problem for 7 and 8 matches, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_14/v14i1toc.html, R27, 2007.
- [425] W. HAAS: Lower bounds for binary codes of covering radius one, *IEEE Trans. Inform. Th.*, vol. 53, pp. 2880–2881, 2007.

- [426] W. HAAS: On the failing cases of the Johnson bound for error-correcting codes, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_15/v15i1toc.html, R55, 2008.
- [427] W. HAAS: Lower bounds for quaternary covering codes, *Ars Combinatoria*, vol. 99, pp. 19–23, 2011.
- [428] W. HAAS: On the general excess bound for binary codes with covering radius one, *Discrete Mathematics*, vol. 313, pp. 2751–2762, 2013.
- [429] W. HAAS, I. HALUPCZOK and J. C. SCHLAGE-PUCHTA: Lower bounds for q -ary codes with large covering radius, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_16/v16i1toc.html, R133, 2009.
- [430] W. HAAS and J. QUISTORFF: On mixed codes with covering radius 1 and minimum distance 2, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_14/v14i1toc.html, R51, 2007.
- [431] W. HAAS, J. QUISTORFF and J. C. SCHLAGE-PUCHTA: New lower bounds for covering codes, Preprint, 2009.
- [432] W. HAAS, J. C. SCHLAGE-PUCHTA and J. QUISTORFF: Lower bounds on covering codes via partition matrices, *J. Combinatorial Th.*, Ser. A, vol. 116, pp. 478–484, 2009.
- [433] L. HABSIEGER: Lower bounds for q -ary coverings by spheres of radius 1, *J. Combinatorial Th.*, Ser. A, vol. 67, pp. 199–222, 1994.
- [434] L. HABSIEGER: Some new lower bounds for ternary covering codes, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_3/foatatoc.html, R23, 1996.
- [435] L. HABSIEGER: A new lower bound for the football pool problem for 7 matches, *J. Th. des Nombres de Bordeaux*, vol. 8, pp. 481–484, 1996.
- [436] L. HABSIEGER: Binary codes with covering radius one: some new lower bounds, *Discrete Mathematics*, vol. 176, pp. 115–130, 1997.
- [437] L. HABSIEGER and A. PLAGNE: New lower bounds for covering codes, *Discrete Mathematics*, vol. 222, No. 1–3, pp. 125–149, 2000.
- [438] L. HABSIEGER and D. STANTON: More zeros of Krawtchouk polynomials, *Graphs and Combinatorics*, vol. 9, pp. 163–172, 1993.
- [439] J. L. HALL: Graphs associated with codes of covering radius 1 and minimum distance 2. With a corrigendum, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_15/v15i1toc.html, R68, 2008.
- [440] M. W. van der HAM: Simulated annealing applied in coding theory, Master’s Thesis, Eindhoven University of Technology, the Netherlands, 50 pp., 1988.
- [441] H. O. HÄMÄLÄINEN, I. S. HONKALA, M. K. KAIKKONEN and S. LITSYN: Bounds for binary multiple covering codes, *Designs, Codes and Cryptography*, vol. 3, pp. 251–275, 1993.

- [442] H. O. HÄMÄLÄINEN, I. S. HONKALA, S. LITSYN and P. R. J. ÖSTERGÅRD: Bounds for binary codes that are multiple coverings of the farthest-off points, *SIAM J. Discrete Mathematics*, vol. 8, pp. 196–207, 1995.
- [443] H. O. HÄMÄLÄINEN, I. S. HONKALA, S. LITSYN and P. R. J. ÖSTERGÅRD: Football pools - a game for mathematicians, *American Mathematical Monthly*, vol. 102, pp. 579–588, 1995.
- [444] H. O. HÄMÄLÄINEN and S. RANKINEN: Upper bounds for football pool problems and mixed covering codes, *J. Combinatorial Th.*, Ser. A, vol. 56, pp. 84–95, 1991.
- [445] R. W. HAMMING: Error detecting and error correcting codes, *Bell Syst. Tech. J.*, vol. 29, pp. 147–160, 1950. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 9–12, IEEE Press, 1974.
- [446] P. HAMMOND: Nearly perfect codes in distance-regular graphs, *Discrete Mathematics*, vol. 14, pp. 41–56, 1976.
- [447] P. HAMMOND: q -coverings, codes, and line graphs, *J. Combinatorial Th.*, Ser. B, vol. 30, pp. 32–35, 1981.
- [448] P. HAMMOND: On the non-existence of perfect and nearly perfect codes, *Discrete Mathematics*, vol. 39, pp. 105–109, 1982.
- [449] P. HAMMOND and D. H. SMITH: Perfect codes in the graphs O_k , *J. Combinatorial Th.*, Ser. B, vol. 19, pp. 239–255, 1975.
- [450] W. B. HAN: Goppa codes from Artin-Schreier function fields, *Chinese Annals of Mathematics*, Ser. B, vol. 15, pp. 311–320, 1994.
- [451] H. HANANI, D. ORNSTEIN and V. T. SÓS: On the lottery problem, *Magyar Tud. Akad. Mat. Kutató Int. Közl.*, vol. 9, pp. 155–158, 1964.
- [452] M. HARADA and A. MUNEMASA: Shadows, neighbors and covering radii of extremal self-dual codes, Preprint, 2006.
- [453] M. HARADA and A. MUNEMASA: On the covering radii of extremal doubly even self-dual codes, *Advances in Mathematics of Communications*, vol. 1, pp. 251–256, 2007.
- [454] M. HARADA, A. MUNEMASA and K. TANABE: Extremal self-dual $[40, 20, 8]$ codes with covering radius 7, *Finite Fields Appl.*, vol. 10, pp. 183–197, 2004.
- [455] M. HARADA and M. OZEKI: Extremal self-dual codes with the smallest covering radius, *Discrete Mathematics*, vol. 215, pp. 271–281, 2000.
- [456] M. HARADA, M. OZEKI and K. TANABE: On the covering radius of ternary extremal self-dual codes, *Designs, Codes and Cryptography*, vol. 33, pp. 149–158, 2004.
- [457] M. HARADA and K. WAKI: New extremal formally self-dual even codes of length 30, *Advances in Mathematics of Communications*, vol. 3, pp. 311–316, 2009.

- [458] F. HARARY and M. LIVINGSTON: Independent domination in hypercubes, *Applied Mathematics Letters*, vol. 6(3), pp. 27–28, 1993.
- [459] A. HARTMAN, W. H. MILLS and R. C. MULLIN: Covering triples by quadruples: an asymptotic solution, *J. Combinatorial Th.*, Ser. A, vol. 41, pp. 117–138, 1986.
- [460] A. HARTMAN, R. C. MULLIN and D. R. STINSON: Exact covering configurations and Steiner systems, *J. London Math. Soc.* (2), vol. 25, pp. 193–200, 1982.
- [461] T. W. HAYNES, S. T. HEDETNIEMI and P. J. SLATER: *Fundamentals of Domination in Graphs*, New York: Marcel Dekker, 1998.
- [462] O. HEDEN: Perfect codes in antipodal distance-transitive graphs, *Math. Scand.*, vol. 35, pp. 29–37, 1974.
- [463] O. HEDEN: A generalized Lloyd theorem and mixed perfect codes, *Math. Scand.*, vol. 37, pp. 13–26, 1975.
- [464] O. HEDEN: A new construction of group and nongroup perfect codes, *Information and Control*, vol. 34, pp. 314–323, 1977.
- [465] O. HEDEN: A binary perfect code of length 15 and codimension 0, *Designs, Codes and Cryptography*, vol. 4, pp. 213–220, 1994.
- [466] O. HEDEN and F. I. SOLOV'eva: On partitions into nonparallel Hamming codes, *Proc. Internat. Workshop on Optimal Codes and Related Topics*, pp. 87–92, Varna, 2009.
- [467] O. HEDEN and F. I. SOLOV'eva: Partitions of F^n into non-parallel Hamming codes, *Advances in Mathematics of Communications*, vol. 3, pp. 385–397, 2009.
- [468] C. HEEGARD: Partitioned linear block codes for computer memory with “stuck-at” defects, *IEEE Trans. Inform. Th.*, vol. 29, pp. 831–842, 1983.
- [469] C. HEEGARD and A. A. EL GAMAL: On the capacity of computer memory with defects, *IEEE Trans. Inform. Th.*, vol. 29, pp. 731–739, 1983.
- [470] H. J. HELGERT: Noncyclic generalizations of BCH and Srivastava codes, *Information and Control*, vol. 21, pp. 280–290, 1972.
- [471] H. J. HELGERT and R. D. STINAFF: Minimum-distance bounds for binary linear codes, *IEEE Trans. Inform. Th.*, vol. 19, pp. 344–356, 1973.
- [472] H. J. HELGERT and R. D. STINAFF: Shortened BCH codes, *IEEE Trans. Inform. Th.*, vol. 19, pp. 818–820, 1973.
- [473] T. HELLESETH: All binary 3-error-correcting BCH codes of length $2^m - 1$ have covering radius 5, *IEEE Trans. Inform. Th.*, vol. 24, pp. 257–258, 1978.
- [474] T. HELLESETH: No primitive binary t -error correcting BCH code with $t > 2$ is quasi-perfect, *IEEE Trans. Inform. Th.*, vol. 25, pp. 361–362, 1979.

- [475] T. HELLESETH: On the covering radius of cyclic linear codes and arithmetic codes, *Discrete Applied Mathematics*, vol. 11, pp. 157–173, 1985.
- [476] T. HELLESETH and T. KLØVE: The Newton radius of codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1820–1831, 1997.
- [477] T. HELLESETH, T. KLØVE and V. I. LEVENSHTTEIN: The Newton radius of equidistant codes, *Proc. Internat. Symp. on Information Theory and its Applications*, vol. 2, pp. 721–722, Victoria, 1996.
- [478] T. HELLESETH, T. KLØVE and J. MYKKELTVEIT: On the covering radius of binary codes, *IEEE Trans. Inform. Th.*, vol. 24, pp. 627–628, 1978.
- [479] T. HELLESETH and H. F. MATTSON, Jr.: On the cosets of the simplex code, *Discrete Mathematics*, vol. 56, pp. 169–189, 1985.
- [480] M. HERZOG and J. SCHÖNHEIM: Linear and nonlinear single-error correcting perfect mixed codes, *Information and Control*, vol. 18, pp. 364–368, 1971.
- [481] M. HERZOG and J. SCHÖNHEIM: Group partition, factorization and the vector covering problem, *Canad. Math. Bull.*, vol. 15, pp. 207–214, 1972.
- [482] R. HILL: Caps and codes, *Discrete Mathematics*, vol. 22, pp. 111–137, 1978.
- [483] J. W. P. HIRSCHFELD: *Projective Geometries over Finite Fields*, Oxford: Clarendon Press, 1979.
- [484] C. T. HO, J. BRUCK and R. AGRAWAL: Partial-sum queries in OLAP data cubes using covering codes, *Proc. 16th ACM Symp. on Principles of Database Systems*, pp. 228–237, Tucson, Arizona, 1997.
- [485] C. T. HO, J. BRUCK and R. AGRAWAL: Partial-sum queries in OLAP data cubes using covering codes, *IEEE Trans. Computers*, vol. 47, pp. 1326–1340, 1998.
- [486] R. HOD and M. KRZYWKOWSKI, The hat problem on a directed graph, to appear.
- [487] H. D. L. HOLLMANN, J. KÖRNER and S. LITSYN: Tiling Hamming space with few spheres, *J. Combinatorial Th.*, Ser. A, vol. 80, pp. 388–393, 1997.
- [488] Y. HONG: On the nonexistence of unknown perfect 6- and 8-codes in Hamming schemes $H(n, q)$ with q arbitrary, *Osaka J. Math.*, vol. 21, pp. 687–700, 1984.
- [489] Y. HONG: On the nonexistence of nontrivial perfect e -codes and tight $2e$ -designs in Hamming schemes $H(N, q)$ with $e \geq 3$ and $q \geq 3$, *Graphs and Combinatorics*, vol. 2, pp. 145–164, 1986.
- [490] I. S. HONKALA: On the intersections and unions of Hamming spheres, in: *The Very Knowledge of Coding*, Laakso and Salomaa, Eds., pp. 70–81, Turku, Finland, 1987.
- [491] I. S. HONKALA: Lower bounds for binary covering codes, *IEEE Trans. Inform. Th.*, vol. 34, pp. 326–329, 1988.

- [492] I. S. HONKALA: Combinatorial bounds for binary constant weight and covering codes, Ph. D. Thesis, University of Turku, Finland, 108 pp., 1989.
- [493] I. S. HONKALA: On the normality of codes with covering radius one, *Proc. Fourth Joint Swedish-Soviet Internat. Workshop on Information Theory*, pp. 223–226, Gotland, 1989.
- [494] I. S. HONKALA: Modified bounds for covering codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 351–365, 1991.
- [495] I. S. HONKALA: On (k, t) -subnormal covering codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 1203–1206, 1991.
- [496] I. S. HONKALA: All binary codes with covering radius one are subnormal, *Discrete Mathematics*, vol. 94, pp. 229–232, 1991.
- [497] I. S. HONKALA: On lengthening of covering codes, *Discrete Mathematics*, vol. 106/107, pp. 291–295, 1992.
- [498] I. S. HONKALA: A Graham-Sloane type construction for s -surjective matrices, *J. Algebraic Combinatorics*, vol. 1, pp. 347–351, 1992.
- [499] I. S. HONKALA: A lower bound on binary codes with covering radius one, *Lecture Notes in Computer Science*, No. 781, pp. 34–37, Springer-Verlag, 1994.
- [500] I. S. HONKALA: On the normality of multiple covering codes, *Discrete Mathematics*, vol. 125, pp. 229–239, 1994.
- [501] I. S. HONKALA: On $(q, 1)$ -subnormal q -ary covering codes, *Discrete Applied Mathematics*, vol. 52, pp. 213–221, 1994.
- [502] I. S. HONKALA: A new lower bound on codes with covering radius one, *Proc. Internat. Symp. on Information Theory and its Applications*, vol. 1, pp. 39–41, Sydney, 1994.
- [503] I. S. HONKALA: Combinatorial lower bounds on binary codes with covering radius one, *Ars Combinatoria*, vol. 50, pp. 149–159, 1998.
- [504] I. S. HONKALA and H. O. HÄMÄLÄINEN: A new construction for covering codes, *IEEE Trans. Inform. Th.*, vol. 34, pp. 1343–1344, 1988.
- [505] I. S. HONKALA and H. O. HÄMÄLÄINEN: Bounds for abnormal binary codes with covering radius one, *IEEE Trans. Inform. Th.*, vol. 37, pp. 372–375, 1991.
- [506] I. S. HONKALA, Y. KAIPAINEN and A. TIETÄVÄINEN: Long binary narrow-sense BCH codes are normal, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, pp. 49–55, 1997.
- [507] I. S. HONKALA and A. KLAPPER: Bounds for the multicovering radii of Reed-Muller codes with applications to stream ciphers, *Designs, Codes and Cryptography*, vol. 23, pp. 131–146, 2001.

- [508] I. S. HONKALA and A. KLAPPER: Multicovering bounds from relative covering radii, *SIAM J. Discrete Mathematics*, vol. 15, pp. 228–234, 2002.
- [509] I. S. HONKALA, T. LAIHONEN and S. LITSYN: On covering radius and discrete Chebyshev polynomials, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, pp. 395–401, 1997.
- [510] I. S. HONKALA and S. LITSYN: Generalizations of the covering radius problem in coding theory, *Bull. Institute of Combinatorics and its Applications*, vol. 17, pp. 39–46, 1996.
- [511] I. S. HONKALA, S. LITSYN and A. TIETÄVÄINEN: On algebraic methods in covering radius problems, *Lecture Notes in Computer Science*, No. 948, pp. 21–32, Springer-Verlag, 1995.
- [512] I. S. HONKALA and A. C. LOBSTEIN: On the complexity of calculating the minimum norm of a binary code, *Proc. Workshop on Coding and Cryptography '99*, pp. 21–27, Paris, 1999.
- [513] I. S. HONKALA and P. R. J. ÖSTERGÅRD: Code design, in: *Local Search in Combinatorial Optimization*, Aarts and Lenstra, Eds., Chapter 13, Wiley, 1997.
- [514] I. S. HONKALA and A. TIETÄVÄINEN: Codes and number theory, in: *Handbook of Coding Theory*, Pless and Huffman, Eds., Chapter 13, Elsevier, 1998.
- [515] J. A. van der HORST and T. BERGER: Complete decoding of triple-error-correcting binary BCH codes, *IEEE Trans. Inform. Th.*, vol. 22, pp. 138–147, 1976.
- [516] X. D. HOU: Covering radius and error correcting codes, Ph. D. Thesis, University of Illinois, Chicago, United States, 77 pp., 1990.
- [517] X. D. HOU: Some results on the norm of codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 683–685, 1990.
- [518] X. D. HOU: New lower bounds for covering codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 895–899, 1990.
- [519] X. D. HOU: An improved sphere covering bound for the codes with $n = 3R + 2$, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1476–1478, 1990.
- [520] X. D. HOU: Binary linear quasi-perfect codes are normal, *IEEE Trans. Inform. Th.*, vol. 37, pp. 378–379, 1991.
- [521] X. D. HOU: On the covering radius of subcodes of a code, *IEEE Trans. Inform. Th.*, vol. 37, pp. 1706–1707, 1991.
- [522] X. D. HOU: Some inequalities about the covering radius of Reed-Muller codes, *Designs, Codes and Cryptography*, vol. 2, pp. 215–224, 1992.
- [523] X. D. HOU: Some results on the covering radii of Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 39, pp. 366–378, 1993.
- [524] X. D. HOU: Further results on the covering radii of the Reed-Muller codes, *Designs, Codes and Cryptography*, vol. 3, pp. 167–177, 1993.

- [525] X. D. HOU: Classification of cosets of the Reed-Muller code $R(m-3, m)$, *Discrete Mathematics*, vol. 128, pp. 203–224, 1994.
- [526] X. D. HOU: $GL(m, 2)$ acting on $R(r, m)/R(r-1, m)$, *Discrete Mathematics*, vol. 149, pp. 99–122, 1996.
- [527] X. D. HOU: Covering radius of the Reed-Muller code $R(1, 7)$ — a simpler proof, *J. Combinatorial Th.*, Ser. A, vol. 74, pp. 337–341, 1996.
- [528] X. D. HOU: On the covering radius of $R(1, m)$ in $R(3, m)$, *IEEE Trans. Inform. Th.*, vol. 42, pp. 1035–1037, 1996.
- [529] X. D. HOU: The covering radius of $R(1, 9)$ in $R(4, 9)$, *Designs, Codes and Cryptography*, vol. 8, pp. 285–292, 1996.
- [530] X. D. HOU: The Reed-Muller code $R(1, 7)$ is normal, *Designs, Codes and Cryptography*, vol. 12, pp. 75–82, 1997.
- [531] X. D. HOU: On the norm and covering radius of the first-order Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1025–1027, 1997.
- [532] X. D. HOU and P. LANGEVIN: Results on bent functions, *J. Combinatorial Th.*, Ser. A, vol. 80, pp. 232–246, 1997.
- [533] W. C. HUFFMAN and V. S. PLESS: *Fundamentals of Error-Correcting Codes*, Cambridge: Cambridge University Press, 2003.
- [534] J. J. E. IMBER and D. L. WEHLAU: A family of small complete caps in $PG(n, 2)$, *European J. Combinatorics*, vol. 24, pp. 613–615, 2003.
- [535] A. ISKE: Progressive scattered data filtering, Report, TUM M0205, Techn. University of Muenchen, Germany, 21 pp., 2002.
- [536] T. IWATA, T. YOSHIWARA and K. KUROSAWA: New covering radius of Reed-Muller codes for t -resilient functions, *Lecture Notes in Computer Science*, No. 2259, pp. 75–86, Springer-Verlag, 2001.
- [537] T. N. JANAKIRAMAN, M. BHANUMATHI and S. MUTHAMMAI: Domination parameters of hypercubes, *Internat. J. Engineering Science, Advanced Computing and Bio-Technology*, vol. 1(1), pp. 19–28, 2010.
- [538] H. JANWA: Relations among parameters of codes, Ph. D. Thesis, Syracuse University, United States, 116 pp., 1986.
- [539] H. JANWA: Some new upper bounds on the covering radius of binary linear codes, *IEEE Trans. Inform. Th.*, vol. 35, pp. 110–122, 1989.
- [540] H. JANWA: Some optimal codes from algebraic geometry and their covering radii, *European J. Combinatorics*, vol. 11, pp. 249–266, 1990.

- [541] H. JANWA: On the parameters of algebraic geometric codes, *Lecture Notes in Computer Science*, No. 539, pp. 19–28, Springer-Verlag, 1991.
- [542] H. JANWA and A. K. LAL: On generalized Hamming weights and the covering radius of linear codes, *Lecture Notes in Computer Science*, No. 4851, pp. 347–356, Springer-Verlag, 2007.
- [543] H. JANWA and H. F. MATTSON, Jr.: Covering radii of even subcodes of t -dense codes, *Lecture Notes in Computer Science*, No. 229, pp. 120–130, Springer-Verlag, 1986.
- [544] H. JANWA and H. F. MATTSON, Jr.: Some upper bounds on the covering radii of linear codes over \mathbf{F}_q and their applications, *Designs, Codes and Cryptography*, vol. 18, pp. 163–181, 1999.
- [545] H. JANWA and H. F. MATTSON, Jr.: On the normality of binary linear codes, *IEEE Trans. Inform. Th.*, submitted.
- [546] P. K. JHA: Hypercubes, median graphs and product of graphs: some algorithmic and combinatorial results, Ph. D. Thesis, Iowa State University, United States, 1990.
- [547] D. S. JOHNSON: Approximation algorithms for combinatorial problems, *J. Comput. System Sciences*, vol. 9, pp. 256–298, 1974.
- [548] S. M. JOHNSON: A new upper bound for error-correcting codes, *IEEE Trans. Inform. Th.*, vol. 8, pp. 203–207, 1962.
- [549] S. M. JOHNSON: A new lower bound for coverings by rook domains, *Utilitas Mathematica*, vol. 1, pp. 121–140, 1972.
- [550] G. A. KABATYANSKII and V. I. PANCHENKO: Unit sphere packings and coverings of the Hamming space, *Problemy Peredachi Informatsii*, vol. 24, No. 4, pp. 3–16, 1988. Translated in: *Problems of Inform. Transm.*, vol. 24, No. 4, pp. 261–272.
- [551] M. K. KAIKKONEN: Codes from affine permutation groups, *Designs, Codes and Cryptography*, vol. 15, pp. 183–186, 1998.
- [552] M. K. KAIKKONEN and P. ROSENDAHL: New covering codes from an ADS-like construction, *IEEE Trans. Inform. Th.*, vol. 49, pp. 1809–1812, 2003.
- [553] Y. KAIPAINEN: Chow variety, Licentiate Thesis, University of Turku, Finland, 1993 (in Finnish).
- [554] Y. KAIPAINEN: On the covering radius of long non-binary BCH codes, Ph. D. Thesis, University of Turku, Finland, 100 pp., 1995.
- [555] Y. KAIPAINEN and K. SUOMINEN: On the covering radius of long 5-ary BCH codes with minimum distance 7, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, pp. 403–410, 1997.
- [556] J. G. KALBFLEISCH and R. G. STANTON: A combinatorial problem in matching, *J. London Math. Soc.*, vol. 44, pp. 60–64, 1969 and (2), vol. 1, p. 398, 1969.

- [557] J. G. KALBFLEISCH, R. G. STANTON and J. D. HORTON: On covering sets and error-correcting codes, *J. Combinatorial Th.*, Ser. A, vol. 11, pp. 233–250, 1971.
- [558] J. G. KALBFLEISCH and P. H. WEILAND: Some new results for the covering problem, in: *Recent Progress in Combinatorics*, Tutte, Ed., pp. 37–45, New York: Academic Press, 1969.
- [559] H. J. L. KAMPS and J. H. van LINT: The football pool problem for 5 matches, *J. Combinatorial Th.*, Ser. A, vol. 3, pp. 315–325, 1967.
- [560] H. J. L. KAMPS and J. H. van LINT: A covering problem, *Combinatorial Theory and its Applications*, vol. II, pp. 679–685, in: *Colloquia Mathematica Societatis János Bolyai*, Ser. 4, 1970.
- [561] M. G. KARPOVSKY: Weight distribution of translates, covering radius and perfect codes correcting errors of the given multiplicities, *IEEE Trans. Inform. Th.*, vol. 27, pp. 462–472, 1981.
- [562] M. G. KARPOVSKY and V. MILMAN: On subspaces contained in subsets of finite homogeneous spaces, *Discrete Mathematics*, vol. 22, pp. 273–280, 1978.
- [563] M. G. KARPOVSKY and V. MILMAN: Coordinate density of sets of vectors, *Discrete Mathematics*, vol. 24, pp. 177–184, 1978.
- [564] T. KASAMI: Weight distributions of Bose-Chaudhuri-Hocquenghem codes, in: *Combinatorial Mathematics and its Applications*, Bose and Dowling, Eds., Chapter 20, University of North Carolina Press, 1969. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 268–274, IEEE Press, 1974.
- [565] T. KASAMI, T. FUJIWARA and S. LIN: An approximation to the weight distribution of binary linear codes, *IEEE Trans. Inform. Th.*, vol. 31, pp. 769–780, 1985.
- [566] T. KASAMI and N. TOKURA: On the weight structure of Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 16, pp. 752–759, 1970.
- [567] T. KASAMI, N. TOKURA and S. AZUMI: On the weight enumeration of weights less than $2.5d$ of Reed-Muller codes, Preprint, Faculty of Engineering, Osaka University, Japan, 1974.
- [568] T. KASAMI, S. YAMAMURA and A. V. KUZNETSOV: Volume of additive matched error- and defect-correcting codes, *Problemy Peredachi Informatsii*, vol. 14, No. 2, pp. 3–10, 1978. Translated in: *Problems of Inform. Transm.*, vol. 14, No. 2, pp. 79–84.
- [569] P. KASKI and P. R. J. ÖSTERGÅRD: *Classification Algorithms for Codes and Designs*, Berlin: Springer, 2006.
- [570] G. O. H. KATONA and J. SRIVASTAVA: Minimal 2-coverings of a finite affine space based on $GF(2)$, *J. Statist. Planning Inference*, vol. 8, pp. 375–388, 1983.
- [571] G. L. KATSMAN: Covering radius of codes being dual to iterative ones, *Proc. Fifth Joint Soviet-Swedish Internat. Workshop on Information Theory*, pp. 91–92, Moscow, 1991.
- [572] G. L. KATSMAN: Bounds on covering radius of dual product codes, *Lecture Notes in Computer Science*, No. 573, pp. 52–57, Springer-Verlag, 1992.

- [573] S. KAVUT and S. TUTDERE: The covering radii of a class of binary cyclic codes and some BCH codes, *Designs, Codes and Cryptography*, vol. 87(2–3), pp. 317–325, 2019.
- [574] G. T. KENNEDY: Weight distributions of linear codes and the Gleason-Pierce theorem, *J. Combinatorial Th.*, Ser. A, vol. 67, pp. 72–88, 1994.
- [575] G. KÉRI: On small covering codes in arbitrary mixed Hamming spaces, *Studia Scientiarum Mathematicarum Hungarica*, vol. 44, pp. 517–534, 2007.
- [576] G. KÉRI: The covering radius of extreme binary 2-surjective codes, *Designs, Codes and Cryptography*, vol. 46, pp. 191–198, 2008.
- [577] G. KÉRI: On the normality of (non-mixed and mixed) optimal covering codes, *Proc. 19th Internat. Symp. on Mathematical Theory of Networks and Systems*, pp. 1819–1821, Budapest, 2010.
- [578] G. KÉRI: Classification results for non-mixed and mixed optimal covering codes: a survey, *Proc. 19th Internat. Symp. on Mathematical Theory of Networks and Systems*, Budapest 2010, to appear.
- [579] G. KÉRI: Tables for covering codes, <http://www.sztaki.hu/~keri/codes/index.htm>
- [580] G. KÉRI and P. R. J. ÖSTERGÅRD: On the covering radius of small codes, *Studia Scientiarum Mathematicarum Hungarica*, vol. 40, pp. 243–256, 2003.
- [581] G. KÉRI and P. R. J. ÖSTERGÅRD: Further results on the covering radius of small codes, Report WP 2003-7, Computer and Automation Institute, Budapest, Hungary, 14 pp., 2003.
- [582] G. KÉRI and P. R. J. ÖSTERGÅRD: Bounds for covering codes over large alphabets, *Designs, Codes and Cryptography*, vol. 37, pp. 45–60, 2005.
- [583] G. KÉRI and P. R. J. ÖSTERGÅRD: The number of inequivalent $(2R+3, 7)R$ optimal covering codes, *Journal of Integer Sequences*, <http://www.cs.uwaterloo.ca/journals/JIS/VOL9/Keri/keri6.html>, 2006.
- [584] G. KÉRI and P. R. J. ÖSTERGÅRD: Further results on the covering radius of small codes, *Discrete Mathematics*, vol. 307, pp. 69–77, 2007.
- [585] G. KÉRI and P. R. J. ÖSTERGÅRD: On the minimum size of binary codes with length $2R + 4$ and covering radius R , *Designs, Codes and Cryptography*, vol. 48, pp. 165–169, 2008.
- [586] M. KHATIRINEJAD and P. LISONĚK: Linear codes for high payload steganography, *Discrete Applied Mathematics*, vol. 157, pp. 971–981, 2009.
- [587] K. E. KILBY and N. J. A. SLOANE: On the covering radius problem for codes: I Bounds on normalized covering radius, II Codes of low dimension; normal and abnormal codes, *SIAM J. Algebraic and Discrete Methods*, vol. 8, pp. 604–627, 1987.
- [588] S. KIRKPATRICK, C. D. GELATT, Jr., and M. P. VECCHI: Optimization by simulated annealing, *Science*, vol. 220, pp. 671–680, 1983.

- [589] A. KLAPPER: On the existence of secure feedback registers, *Lecture Notes in Computer Science*, No. 1070, pp. 256–267, Springer-Verlag, 1996.
- [590] A. KLAPPER: The multicovering radii of codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1372–1377, 1997.
- [591] A. KLAPPER: Improved lower bounds for multicovering codes, *IEEE Trans. Inform. Th.*, vol. 45, pp. 2532–2534, 1999.
- [592] A. KLAPPER: Multicovering bounds from linear inequalities, *Proc. Workshop on Coding and Cryptography 2001*, pp. 309–318, Paris, 2001.
- [593] A. KLAPPER: Multicovering bounds from supercodes, *Proc. IEEE Symp. on Information Theory*, p. 203, Washington, 2001.
- [594] A. KLAPPER: Improved multicovering bounds from linear inequalities and supercodes, *IEEE Trans. Inform. Th.*, vol. 50, pp. 532–536, 2004.
- [595] A. KLAPPER and A. MERTZ: The two covering radius of the two error correcting BCH code, *Proc. IEEE Symp. on Information Theory*, Seattle, 2006.
- [596] A. KLAPPER and A. MERTZ: The two covering radius of the two error correcting BCH code, *Advances in Mathematics of Communications*, vol. 3, pp. 83–95, 2009.
- [597] A. KLEIN and L. STORME: Applications of finite geometry in coding theory and cryptography, in: *Information Security, Coding Theory and Related Combinatorics*, Crnković and Tonchev, Eds., vol. 29, pp. 38–58, 2011.
- [598] Y. KLEIN, S. LITSYN and A. VARDY: Two new bounds on the size of binary codes with a minimum distance of three, *Designs, Codes and Cryptography*, vol. 6, pp. 219–227, 1995.
- [599] D. J. KLEITMAN: On a combinatorial conjecture of Erdős, *J. Combinatorial Th.*, vol. 1, pp. 209–214, 1966.
- [600] D. J. KLEITMAN and J. H. SPENCER: Families of k -independent sets, *Discrete Mathematics*, vol. 6, pp. 255–262, 1973.
- [601] T. KLØVE: On Robinson’s coding problem, *IEEE Trans. Inform. Th.*, vol. 29, pp. 450–454, 1983.
- [602] T. KLØVE: Relations between the covering and Newton radii of binary codes, *Discrete Mathematics*, vol. 238, pp. 81–88, 2001.
- [603] T. KLØVE and M. SCHWARTZ: Linear covering codes and error-correcting codes for limited-magnitude errors, *Designs, Codes and Cryptography*, vol. 73, pp. 329–354, 2014, and vol. 73, p. 1029, 2014.
- [604] D. E. KNUTH: Efficient balanced codes, *IEEE Trans. Inform. Th.*, vol. 32, pp. 51–53, 1986.
- [605] E. KOLEV: Lower bounds for mixed covering codes of length 5, *Comptes-Rendus de l’Académie Bulgare des Sciences*, vol. 46, pp. 9–11, 1993.

- [606] E. KOLEV: Codes over $GF(3)$ of length 5, 27 codewords and covering radius 1, *J. Combinatorial Designs*, vol. 1, pp. 265–275, 1993.
- [607] E. KOLEV: Mixed covering codes with two binary and four ternary coordinates, *Lecture Notes in Computer Science*, No. 948, pp. 312–322, Springer-Verlag, 1995.
- [608] E. KOLEV: A $(9, 56)_1$ binary code does not exist, *Comptes-Rendus de l'Académie Bulgare des Sciences*, vol. 51, pp. 25–28, 1998.
- [609] E. KOLEV: Mixed binary/ternary covering codes, *Bulletin of the Hellenic Mathematical Society*, vol. 59, pp. 83–90, 2016.
- [610] E. KOLEV and T. BAICHEVA: Minimal coverings of $\{0, 1, 2\}^n$ with spheres of radius n , *Utilitas Mathematica*, vol. 103, pp. 209–216, 2017.
- [611] E. KOLEV and R. HILL: An improved lower bound on the covering number $K_2(9, 1)$, *Discrete Mathematics*, vol. 197/198, pp. 483–489, 1999.
- [612] E. KOLEV and I. LANDGEV: On some mixed covering codes of small length, *Lecture Notes in Computer Science*, No. 781, pp. 38–50, Springer-Verlag, 1994.
- [613] K. U. KOSCHNICK: A new upper bound for the football pool problem for nine matches, *J. Combinatorial Th.*, Ser. A, vol. 62, pp. 162–167, 1993.
- [614] I. KRASIKOV and S. LITSYN: On spectra of BCH codes, *IEEE Trans. Inform. Th.*, vol. 41, pp. 786–788, 1995.
- [615] I. KRASIKOV and S. LITSYN: On integral zeros of Krawtchouk polynomials, *J. Combinatorial Th.*, Ser. A, vol. 74, pp. 71–99, 1996.
- [616] J. KRATOCHVÍL: 1-perfect codes over self-complementary graphs, *Commentationes Mathematicae Universitatis Carolinae*, No. 26, pp. 589–595, 1985.
- [617] J. KRATOCHVÍL: Perfect codes over graphs, *J. Combinatorial Th.*, Ser. B, vol. 40, pp. 224–228, 1986.
- [618] J. KRATOCHVÍL: Perfect codes in general graphs, *Colloquia Mathematica Societatis János Bolyai*, vol. 52, pp. 357–364, 1988.
- [619] J. KRATOCHVÍL: *Perfect Codes in General Graphs*, Prague: Academia, 1991.
- [620] J. KRATOCHVÍL: Regular codes in regular graphs are difficult, *Discrete Mathematics*, vol. 133, pp. 191–205, 1994.
- [621] M. KRIVELEVICH, B. SUDAKOV and V. H. VU: Covering codes with improved density, *IEEE Trans. Inform. Th.*, vol. 49, pp. 1812–1815, 2003.
- [622] P. V. KUMAR and R. A. SCHOLTZ: Bounds on the linear span of bent sequences, *IEEE Trans. Inform. Th.*, vol. 29, pp. 854–862, 1983.

- [623] K. KUROSAWA, T. IWATA and T. YOSHIWARA: New covering radius of Reed-Muller codes for t -resilient functions, *IEEE Trans. Inform. Th.*, vol. 50, pp. 468–475, 2004.
- [624] R. P. KURSHAN and N. J. A. SLOANE: Coset analysis of Reed-Muller codes via translates of finite vector spaces, *Information and Control*, vol. 20, pp. 410–414, 1972.
- [625] N. N. KUZJURIN: On the difference between asymptotically good packings and coverings, *European J. Combinatorics*, vol. 16, pp. 35–40, 1995.
- [626] A. V. KUZNETSOV: Coding in a channel with generalized defects and random errors, *Problemy Peredachi Informatsii*, vol. 21, No. 1, pp. 28–34, 1985. Translated in: *Problems of Inform. Transm.*, vol. 21, No. 1, pp. 20–25.
- [627] A. V. KUZNETSOV and B. S. TSYBAKOV: Coding in memories with defective cells, *Problemy Peredachi Informatsii*, vol. 10, No. 2, pp. 52–60, 1974. Translated in: *Problems of Inform. Transm.*, vol. 10, No. 2, pp. 132–138.
- [628] A. V. KUZNETSOV and A. J. H. VINCK: On the general defective channel with informed encoder and capacities of some constrained memories, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1866–1871, 1994.
- [629] H. LAAKSO: Nonexistence of nontrivial perfect codes in the case $q = p_1^a p_2^b p_3^c, e \geq 3$, *Ann. Univ. Turku*, Ser. A I, No. 177, pp. 1–43, 1979.
- [630] P. J. M. van LAARHOVEN and E. H. L. AARTS: *Simulated Annealing: Theory and Applications*, Dordrecht: Reidel, 1987.
- [631] P. J. M. van LAARHOVEN, E. H. L. AARTS, J. H. van LINT and L. T. WILLE: New upper bounds for the football pool problem for 6, 7 and 8 matches, *J. Combinatorial Th.*, Ser. A, vol. 52, pp. 304–312, 1989.
- [632] J. M. LABORDE: Une nouvelle famille de codes binaires, parfaits, non linéaires, *Comptes-Rendus de l'Académie des Sciences*, Ser. I, vol. 297, pp. 67–70, 1983.
- [633] J. M. LABORDE: Sur le nombre domatique du n -cube et une conjecture de Zelinka, *European J. Combinatorics*, vol. 8, pp. 175–177, 1987.
- [634] G. LACHAUD and J. WOLFMANN: The weights of the orthogonals of the extended quadratic binary Goppa codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 686–692, 1990.
- [635] J. LAHTONEN: An optimal polynomial for a covering radius problem, *Discrete Mathematics*, vol. 105, pp. 313–317, 1992.
- [636] T. LAIHONEN: Estimates on the covering radius when the dual distance is known, Ph. D. Thesis, University of Turku, Finland, 89 pp., 1998.
- [637] T. LAIHONEN: On the covering radius of a binary code, *Proc. Seventh Nordic Combinatorial Conf.*, pp. 57–63, Turku, 1999.
- [638] T. LAIHONEN: On an algebraic method for bounding the covering radius, *Proc. DIMACS Workshop on Codes and Association Schemes*, vol. 56, pp. 213–221, 2001.

- [639] T. LAIHONEN: On optimal edge-robust and vertex-robust $(1, \leq \ell)$ -identifying codes, *SIAM Journal on Discrete Mathematics*, vol. 18, pp. 825–834, 2005.
- [640] T. LAIHONEN and S. LITSYN: On upper bounds for minimum distance and covering radius of nonbinary codes, *Designs, Codes and Cryptography*, vol. 14, pp. 71–80, 1998.
- [641] T. LAIHONEN and S. LITSYN: New bounds on covering radius as a function of dual distance, *SIAM J. Discrete Mathematics*, vol. 12, pp. 243–251, 1999.
- [642] C. W. H. LAM, G. BUTLER, K. L. MA and K. LOESCHNER: Constructing covering codes via automorphisms, *Bayreuther Mathematische Schriften*, vol. 74, pp. 221–232, 2005.
- [643] M. LAMBERGER, F. MENDEL, V. RIJMEN and K. SIMOENS: Memoryless near-collisions via coding theory, *Designs, Codes and Cryptography*, vol. 62, pp. 1–18, 2012.
- [644] M. LAMBERGER and V. RIJMEN: Optimal covering codes for finding near-collisions, *Lecture Notes in Computer Science*, No. 6544, pp. 187–197, Springer-Verlag, 2011.
- [645] E. R. LAMKEN, W. H. MILLS, R. C. MULLIN and S. A. VANSTONE: Coverings of pairs by quintuples, *J. Combinatorial Th.*, Ser. A, vol. 44, pp. 49–68, 1987.
- [646] I. LANDJEV and L. STORME: Galois geometry and coding theory, in: *Current Research Topics in Galois Geometry*, De Beule and Storme, Eds., Chapter 8, NOVA Academic Publisher, 2012.
- [647] S. LANG and A. WEIL: Number of points of varieties in finite fields, *American J. Math.*, vol. 76, pp. 819–827, 1954.
- [648] W. LANG, J. QUISTORFF and E. SCHNEIDER: New results on integer programming for codes, *Congressus Numerantium*, vol. 188, pp. 97–107, 2007.
- [649] W. LANG, J. QUISTORFF and E. SCHNEIDER: Integer programming for covering codes, *J. Combin. Math. and Combin. Comput.*, vol. 66, pp. 279–288, 2008.
- [650] P. LANGEVIN: The covering radius of $RM(1, 9)$ into $RM(3, 9)$, *Lecture Notes in Computer Science*, No. 514, pp. 51–59, Springer-Verlag, 1991.
- [651] P. LANGEVIN: On the orphans and covering radius of the Reed-Muller codes, *Lecture Notes in Computer Science*, No. 539, pp. 234–240, Springer-Verlag, 1991.
- [652] P. LANGEVIN: On generalized bent functions, *CISM Courses and Lectures*, No. 339, pp. 147–157, Springer-Verlag, 1993.
- [653] E. LEDUCQ: On the covering radius of first-order generalized Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 59, pp. 1590–1596, 2013.
- [654] A. LEMPEL: Matrix factorization over $GF(2)$ and trace orthogonal bases of $GF(2^n)$, *SIAM J. Comput.*, vol. 4, pp. 175–186, 1975.
- [655] H. W. LENSTRA, Jr.: Two theorems on perfect codes, *Discrete Mathematics*, vol. 3, pp. 125–132, 1972.

- [656] H. W. LENSTRA, Jr. and G. SEROUSSI: On hats and other covers, *Proc. IEEE Symp. on Information Theory*, p. 342, Lausanne, 2002.
- [657] A. LENZ, C. RASHTCHIAN, P. H. SIEGEL and E. YAAKOBI: Covering codes using insertions or deletions, *IEEE Trans. Inform. Th.*, vol. 67, pp. 3376–3388, 2021.
- [658] V. F. LEV: Generating binary spaces, *J. Combinatorial Th.*, Ser. A, vol. 102, pp. 94–109, 2003.
- [659] M. LEVAN and K. T. PHELPS: Personal communication, 1996.
- [660] V. I. LEVENSHTEIN: Bounds on the maximal cardinality of a code with bounded modulus of the inner product, *Soviet Math. — Dokl.*, vol. 25, No. 2, pp. 526–531, 1982.
- [661] V. I. LEVENSHTEIN: Bounds for packings of metric spaces and some of their applications, *Problemy Kibernetiki*, vol. 40, pp. 43–110, 1983 (in Russian).
- [662] V. I. LEVENSHTEIN: A simple proof of the main inequalities for fundamental parameters of codes in polynomial association schemes, *Proc. 4th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 143–146, Novgorod, 1994.
- [663] V. I. LEVENSHTEIN: Krawtchouk polynomials and universal bounds for codes and designs in Hamming spaces, *IEEE Trans. Inform. Th.*, vol. 41, pp. 1303–1321, 1995.
- [664] F. LEVY-DIT-VEHEL and S. LITSYN: On the covering radius of long Goppa codes, *Lecture Notes in Computer Science*, No. 948, pp. 341–346, Springer-Verlag, 1995.
- [665] F. LEVY-DIT-VEHEL and S. LITSYN: More on the covering radius of BCH codes, *IEEE Trans. Inform. Th.*, vol. 42, pp. 1023–1028, 1996.
- [666] F. LEVY-DIT-VEHEL and S. LITSYN: Parameters of Goppa codes revisited, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1811–1819, 1997.
- [667] D. LI and W. CHEN: New lower bounds for binary covering codes, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1122–1129, 1994.
- [668] P. LI, S. X. ZHU and H. F. YU: Covering radius of codes over the ring $F_2 + uF_2$, *Journal of University of Science and Technology of China*, vol. 38, pp. 145–148, 2008 (in Chinese, English summary).
- [669] X. LI, Y. HU and J. GAO: The lower bounds on the second order nonlinearity of cubic boolean functions, to appear.
- [670] R. LIDL and H. NIEDERREITER: *Finite Fields*, Reading, MA: Addison Wesley, 1983.
- [671] J. LINDEROTH, F. MARGOT and G. THAIN: Improving bounds on the football pool problem by integer programming and high-throughput computing, *INFORMS Journal on Computing*, vol. 21, pp. 445–457, 2009.
- [672] B. LINDSTRÖM: On group and nongroup perfect codes in q symbols, *Math. Scand.*, vol. 25, pp. 149–158, 1969.

- [673] B. LINDSTRÖM: Group partitions and mixed perfect codes, *Canad. Math. Bull.*, vol. 18, pp. 57–60, 1975.
- [674] K. LINDSTRÖM: The nonexistence of unknown nearly perfect binary codes, *Ann. Univ. Turku, Ser. A I*, No. 169, pp. 7–28, 1975.
- [675] K. LINDSTRÖM: All nearly perfect codes are known, *Information and Control*, vol. 35, pp. 40–47, 1977.
- [676] K. LINDSTRÖM and M. J. AALTONEN: The nonexistence of nearly perfect nonbinary codes for $1 \leq e \leq 10$, *Ann. Univ. Turku, Ser. A I*, No. 172, 1976.
- [677] J. H. van LINT: 1967–1969 Report of the Discrete Mathematics Group, Report 69-WSK-04, Eindhoven University of Technology, the Netherlands, 1969.
- [678] J. H. van LINT: On the nonexistence of perfect 2- and 3-Hamming-error-correcting codes over $GF(q)$, *Information and Control*, vol. 16, pp. 396–401, 1970.
- [679] J. H. van LINT: On the nonexistence of perfect 5-, 6-, and 7-Hamming-error-correcting codes over $GF(q)$, Report 70-WSK-06, Eindhoven University of Technology, the Netherlands, 1970.
- [680] J. H. van LINT: *Coding Theory*, New York: Springer-Verlag, 1971.
- [681] J. H. van LINT: Nonexistence theorems for perfect error-correcting codes, in: *Computers in Algebra and Number Theory*, vol. IV, SIAM-AMS Proceedings, 1971.
- [682] J. H. van LINT: On the nonexistence of certain perfect codes, in: *Computers in Number Theory*, Atkin and Birch, Eds., pp. 227–282, New York: Academic Press, 1971.
- [683] J. H. van LINT: Recent results on perfect codes and related topics, in: *Combinatorics*, Hall and van Lint, Eds., vol. 1, pp. 158–178, Mathematical Centre, Amsterdam, 1974.
- [684] J. H. van LINT: A survey of perfect codes, *Rocky Mountain J. Math.*, vol. 5, pp. 199–224, 1975.
- [685] J. H. van LINT: *Introduction to Coding Theory*, New York: Springer-Verlag, 1982.
- [686] J. H. van LINT: Recent results on covering problems, *Lecture Notes in Computer Science*, No. 357, pp. 7–21, Springer-Verlag, 1989.
- [687] J. H. van LINT, Jr.: Covering radius problems, Master’s Thesis, Eindhoven University of Technology, the Netherlands, 41 pp., 1988.
- [688] J. H. van LINT, Jr., and G. J. M. van WEE: Generalized bounds on binary/ternary mixed packing and covering codes, *J. Combinatorial Th.*, Ser. A, vol. 57, pp. 130–143, 1991.
- [689] S. LITSYN: An updated table of best known binary codes, Preprint, 1996.
- [690] S. LITSYN, C. J. MORENO and O. MORENO: Divisibility properties and new bounds for cyclic codes and exponential sums in one and several variables, *Applicable Algebra in Engineering, Communication and Computing*, vol. 5, pp. 105–116, 1994.

- [691] S. LITSYN, P. SOLÉ and R. STRUIK: On the covering radius of an unrestricted code as a function of the rate and dual distance, *Discrete Applied Mathematics*, vol. 82, pp. 177–192, 1998.
- [692] S. LITSYN and A. TIETÄVÄINEN: Upper bounds on the covering radius of a code with a given dual distance, *European J. Combinatorics*, vol. 17, pp. 265–270, 1996.
- [693] S. LITSYN and A. VARDY: The uniqueness of the Best code, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1693–1698, 1994.
- [694] S. P. LLOYD: Binary block coding, *Bell Syst. Tech. J.*, vol. 36, pp. 517–535, 1957. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 246–251, IEEE Press, 1974.
- [695] A. C. LOBSTEIN: Rayon de recouvrement de codes binaires non-linéaires, *Traitement du Signal*, vol. 1, No. 2–1, pp. 105–114, 1984.
- [696] A. C. LOBSTEIN: Contributions au codage combinatoire: ordres additifs, rayon de recouvrement, Thèse, Télécom Paris, France, 163 pp., 1985.
- [697] A. C. LOBSTEIN: The hardness of solving Subset Sum with preprocessing, *IEEE Trans. Inform. Th.*, vol. 36, pp. 943–946, 1990.
- [698] A. C. LOBSTEIN and G. D. COHEN: Sur la complexité d’un problème de codage, *RAIRO Informatique Théorique et Applications*, vol. 21, No. 1, pp. 25–32, 1987.
- [699] A. C. LOBSTEIN, G. D. COHEN and N. J. A. SLOANE: Recouvrements d’espaces de Hamming binaires, *Comptes-Rendus de l’Académie des Sciences*, Ser. I, vol. 301, pp. 135–138, 1985.
- [700] A. C. LOBSTEIN and V. S. PLESS: The length function: a revised table, *Lecture Notes in Computer Science*, No. 781, pp. 51–55, Springer-Verlag, 1994.
- [701] A. C. LOBSTEIN and P. SOLÉ: Arithmetic codes - Survey, recent and new results, *Lecture Notes in Computer Science*, No. 539, pp. 246–258, Springer-Verlag, 1991.
- [702] A. C. LOBSTEIN and G. J. M. van WEE: On normal and subnormal q -ary codes, *IEEE Trans. Inform. Th.*, vol. 35, pp. 1291–1295, 1989, and vol. 36, p. 1498, 1990.
- [703] A. C. LOBSTEIN and V. A. ZINOVIEV: On new perfect binary nonlinear codes, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, pp. 415–420, 1997.
- [704] L. LOVÁSZ: On the ratio of optimal integral and fractional covers, *Discrete Mathematics*, vol. 13, pp. 383–390, 1975.
- [705] L. LOVÁSZ: Covers, packings, and some heuristic algorithms, *Proc. 5th British Combinatorial Conf.*, pp. 417–429, 1975.
- [706] L. LOVÁSZ: Kneser’s conjecture, chromatic number and homotopy, *J. Combinatorial Th.*, Ser. A, vol. 25, pp. 319–324, 1978.
- [707] L. LOVÁSZ, J. H. SPENCER and K. VESZTERGOMBI: Discrepancy of set-systems and matrices, *European J. Combinatorics*, vol. 7, pp. 151–160, 1986.

- [708] J. E. MACDONALD: Design methods for maximum minimum-distance error-correcting codes, *IBM J. Res. Develop.*, vol. 4, pp. 43–57, 1960.
- [709] R. A. MACHADO, J. A. PINHEIRO and M. FIRER: Characterization of metrics induced by hierarchical posets, *IEEE Trans. Inform. Th.*, vol. 63, pp. 3630–3640, 2017.
- [710] F. J. MACWILLIAMS: Combinatorial problems of elementary group theory, Ph. D. Thesis, Harvard University, United States, 1962.
- [711] F. J. MACWILLIAMS: Orthogonal matrices over finite fields, *American Mathematical Monthly*, vol. 76, pp. 152–164, 1969.
- [712] F. J. MACWILLIAMS and N. J. A. SLOANE: *The Theory of Error-Correcting Codes*, Amsterdam: North-Holland, 1977.
- [713] J. A. MAIORANA: A classification of the cosets of the Reed-Muller code $R(1,6)$, *Mathematics of Computation*, vol. 57, pp. 403–414, 1991.
- [714] S. A. MALYUGIN: On a lower bound on the number of perfect binary codes, *Diskr. Analys i Issledovanie Operatsii*, vol. 6, No. 4, pp. 44–48, 1999. Translated in: *Discrete Applied Mathematics*, vol. 135, pp. 157–160, 2004.
- [715] S. A. MANE and B. N. WAPHARE: On independent and (d, n) -domination numbers of hypercubes, *AKCE Internat. J. Graphs and Combinatorics*, vol. 9, pp. 161–168, 2012.
- [716] K. N. MANEV and E. D. VELIKOVA: The covering radius and weight distribution of cyclic codes over $GF(4)$ of lengths up to 13, *Proc. 2nd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 150–153, Leningrad, 1990.
- [717] H. B. MANN: *Addition Theorems*, New York: Wiley, 1965.
- [718] W. MANTEL: Problem 28 (solution by H. Gouwentak, W. Mantel, J. Texeira de Mattes, F. Schuh and W. A. Wythoff), *Wiskundige Opgaven*, vol. 10, pp. 60–61, 1907.
- [719] J. L. MARENCO and P. A. REY: The football pool polytope, *Electronic Notes in Discrete Mathematics*, vol. 30, pp. 75–80, 2008.
- [720] A. N. MARTINHÃO and E. L. MONTE CARMELO: Short covering codes arising from matchings in weighted graphs, *Mathematics of Computation*, vol. 82, pp. 605–616, 2013.
- [721] H. MARTINI and W. WENZEL: Covering and packing problems in lattices associated with the n -cube, *European J. Combinatorics*, vol. 23, pp. 63–75, 2002.
- [722] H. F. MATTSON, Jr.: An upper bound on covering radius, *Annals of Discrete Mathematics*, vol. 17, pp. 453–458, 1983.
- [723] H. F. MATTSON, Jr.: Another upper bound on covering radius, *IEEE Trans. Inform. Th.*, vol. 29, pp. 356–359, 1983.

- [724] H. F. MATTSON, Jr.: An improved upper bound on covering radius, *Lecture Notes in Computer Science*, No. 228, pp. 90–106, Springer-Verlag, 1986.
- [725] H. F. MATTSON, Jr.: Simplifications to “A new approach to the covering radius...”, *J. Combinatorial Th.*, Ser. A, vol. 57, pp. 311–315, 1991.
- [726] H. F. MATTSON, Jr., and J. R. SCHATZ: A brief survey of covering radius, *Annals of Discrete Mathematics*, vol. 18, pp. 617–624, 1983.
- [727] H. F. MATTSON, Jr., and G. SOLOMON: A new treatment of Bose-Chaudhuri codes, *J. Soc. Indust. Appl. Math.*, vol. 9, pp. 654–669, 1961. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 82–86, IEEE Press, 1974.
- [728] J. G. MAULDON: Covering theorems for groups, *Quart. J. Math. Oxford*, vol. 1, pp. 284–287, 1950.
- [729] R. J. MCELIECE: Weight congruences for p -ary cyclic codes, *Discrete Mathematics*, vol. 3, pp. 172–192, 1972.
- [730] R. J. MCELIECE: *The Theory of Information and Coding*, Encyclopedia of Mathematics and its Applications, vol. 3, Reading, MA: Addison Wesley, 1977.
- [731] R. J. MCELIECE: *Finite Fields for Computer Scientists and Engineers*, Kluwer, 1987.
- [732] R. J. MCELIECE, E. R. RODEMICH, H. C. RUMSEY and L. R. WELCH: New upper bounds on the rate of a code via the Delsarte-MacWilliams inequalities, *IEEE Trans. Inform. Th.*, vol. 23, pp. 157–166, 1977.
- [733] A. MCLOUGHLIN: The covering radius of the $(m - 3)$ rd order Reed-Muller codes and a lower bound on the covering radius of the $(m - 4)$ th order Reed-Muller codes, *SIAM J. Applied Mathematics*, vol. 37, pp. 419–422, 1979.
- [734] A. MCLOUGHLIN: The complexity of computing the covering radius of a code, *IEEE Trans. Inform. Th.*, vol. 30, pp. 800–804, 1984.
- [735] C. MENDES, E. L. MONTE CARMELO and M. POGGI: Bounds for short covering codes and reactive tabu search, *Discrete Applied Mathematics*, vol. 158, pp. 522–533, 2010.
- [736] A. MENEZES, I. F. BLAKE, X. GAO, R. C. MULLIN, S. A. VANSTONE and T. YAGHOBIAN: *Applications of Finite Fields*, Kluwer, 1993.
- [737] F. MERKX: Wom-codes constructed with projective geometries, *Traitement du Signal*, vol. 1, No. 2–2, pp. 227–231, 1984.
- [738] A. MERTZ: The multicovering radii of the even weight codes, *Proc. IEEE Symp. on Information Theory*, p. 14, Washington, 2001.
- [739] A. MERTZ: On the complexity of multicovering radii, *IEEE Trans. Inform. Th.*, vol. 50, pp. 1804–1808, 2004.

- [740] S. MESNAGER and A. OBLAUKHOV: Classification of the codewords of weights 16 and 18 of the Reed-Muller code $RM(n - 3, n)$, *IEEE Trans. Inform. Th.*, vol. 68, pp. 940–952, 2022.
- [741] A. R. MEYER and L. J. STOCKMEYER: The equivalence problem for regular expressions with squaring requires exponential time, *Proc. 13th Ann. IEEE Symp. on Switching and Automata Theory*, pp. 125–129, 1972.
- [742] M. MIGNOTTE and A. PETHÖ: On the system of diophantine equations $x^2 - 6y^2 = -5$ and $x = 2z^2 - 1$, *Math. Scand.*, vol. 76, pp. 50–60, 1995.
- [743] W. H. MILLS: On the covering of pairs by quadruples I, *J. Combinatorial Th.*, Ser. A, vol. 13, pp. 55–78, 1972.
- [744] W. H. MILLS: On the covering of pairs by quadruples II, *J. Combinatorial Th.*, Ser. A, vol. 15, pp. 138–166, 1973.
- [745] W. H. MILLS: Covering designs I: Coverings by a small number of subsets, *Ars Combinatoria*, vol. 8, pp. 199–315, 1979.
- [746] W. H. MILLS: A covering of pairs by quintuples, *Ars Combinatoria*, vol. 18, pp. 21–31, 1983.
- [747] W. H. MILLS and R. C. MULLIN: Coverings and packings, in: *Contemporary Design Theory: A Collection of Surveys*, Dinitz and Stinson, Eds., pp. 371–399, Wiley, 1992.
- [748] E. MINKES: A non-deterministic algorithm for the covering radius, covering radius bounds and code constructions, Master’s Thesis, Delft University of Technology, the Netherlands, 21 pp., 1996.
- [749] M. MITTON: Theoretical upper bounds on the covering radii of Boolean functions, *J. Discrete Mathematical Sciences & Cryptography*, vol. 7, pp. 237–248, 2004.
- [750] M. MOLLARD: Les invariants du n -cube, Thèse de 3ème cycle, Université de Grenoble, France, 113 pp., 1981.
- [751] M. MOLLARD: Une généralisation de la fonction parité, application à la construction de codes parfaits, Rapport de Recherche No. 395, Laboratoire de Mathématiques Appliquées, Grenoble, France, 1983.
- [752] M. MOLLARD: Une nouvelle famille de 3-codes parfaits sur $GF(q)$, *Discrete Mathematics*, vol. 49, pp. 209–212, 1984.
- [753] M. MOLLARD: A generalized parity function and its use in the construction of perfect codes, *SIAM J. Algebraic and Discrete Methods*, vol. 7, pp. 113–115, 1986.
- [754] B. MONTARON and G. D. COHEN: Codes parfaits binaires à plusieurs rayons, *Revue CETHEDec*, vol. 2, pp. 35–58, 1979.
- [755] E. L. MONTE CARMELO: Invariant sets under permutation, extremal graphs, and covering codes, *Vth Latin-American Algorithms, Graphs and Optimization Symp.*, Gramado, 2009.

- [756] E. L. MONTE CARMELO: Covering codes and extremal problems from invariant sets under permutations, *Discrete Mathematics*, vol. 313, pp. 249–257, 2013.
- [757] E. L. MONTE CARMELO and C. F. X. DE MENDONÇA NETO: Extremal problems on sum-free sets and coverings in tridimensional spaces, *Aequationes Mathematicae*, vol. 78, pp. 101–112, 2009.
- [758] E. L. MONTE CARMELO and I. N. NAKAOKA: Short coverings in tridimensional spaces arising from sum-free sets, *European J. Combinatorics*, vol. 29, pp. 227–233, 2008.
- [759] E. L. MONTE CARMELO, I. N. NAKAOKA and J. R. GERÔNIMO: A covering problem on finite spaces and rook domains, *Internat. J. Applied Mathematics*, vol. 20, pp. 875–886, 2007.
- [760] C. G. T. de A. MOREIRA and Y. KOHAYAKAWA: Bounds for optimal coverings, *Discrete Applied Mathematics*, vol.141, pp. 263–276, 2004.
- [761] C. J. MORENO and O. MORENO: Exponential sums and Goppa codes I, *Proc. American Math. Soc.*, vol. 111, pp. 523–531, 1991.
- [762] C. J. MORENO and O. MORENO: Exponential sums and Goppa codes II, *IEEE Trans. Inform. Th.*, vol. 38, pp. 1222–1229, 1992.
- [763] O. MORENO: Further results on quasiperfect codes related to the Goppa codes, *Congressus Numerantium*, vol. 40, pp. 249–256, 1983.
- [764] O. MORENO and F. N. CASTRO: On the covering radius of certain cyclic codes, *Lecture Notes in Computer Science*, No. 2643, pp. 129–138, Springer-Verlag, 2003.
- [765] O. MORENO and F. N. CASTRO: Divisibility properties for covering radius of certain cyclic codes, *IEEE Trans. Inform. Th.*, vol. 49, pp. 3299–3303, 2003.
- [766] O. MORENO, F. N. CASTRO and H. F. MATTSON, Jr.: Correction to “Divisibility properties for covering radius of certain cyclic codes”, *IEEE Trans. Inform. Th.*, vol. 52, pp. 1798–1799, 2006.
- [767] O. MORENO and C. J. MORENO: Constructive elementary approach to the covering radius of long BCH codes, *Proc. 2nd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 162–165, Leningrad, 1990.
- [768] O. MORENO and C. J. MORENO: The MacWilliams-Sloane conjecture on the tightness of the Carlitz-Uchiyama bound and the weights of duals of BCH codes, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1894–1907, 1994.
- [769] J. MYKKELTVEIT: The covering radius of the (128, 8) Reed-Muller code is 56, *IEEE Trans. Inform. Th.*, vol. 26, pp. 359–362, 1980.
- [770] Z. L. NAGY and L. SZEMERÉDI: Steiner triple systems and spreading sets in projective spaces, *J. Combinatorial Designs*, vol. 30, pp. 549–560, 2022.
- [771] I. N. NAKAOKA and O. J. N. T. N. DOS SANTOS: A covering problem over finite rings, *Applied Mathematics Letters*, vol. 23, pp. 322–326, 2010.

- [772] J. NAOR and M. NAOR: Small bias probability spaces: efficient constructions and applications, *Proc. 22nd STOC*, pp. 213–223, 1990.
- [773] M. NAVON and A. SAMORODNITSKY: Linear programming bounds for codes via a covering argument, *Discrete and Computational Geometry*, vol. 41, pp. 199–207, 2009.
- [774] A. F. NIKIFOROV, S. K. SUSLOV and V. B. UVAROV: *Classical Orthogonal Polynomials of Discrete Variable*, Moscow: Nauka, 1985 (in Russian).
- [775] S. C. NTAFOU and S. L. HAKIMI: On the complexity of some coding problems, *IEEE Trans. Inform. Th.*, vol. 27, pp. 794–796, 1981.
- [776] M. NUMATA: On the minimal covering of 3-dimensional Hamming scheme, *Ann. Rep. Fac. Educ. Iwate University*, vol. 52, No. 1, pp. 73–84, 1992.
- [777] K. J. NURMELA: Constructing combinatorial designs by local search, J. Sc. Thesis, Research Report, Ser. A, No. 27, Helsinki University of Technology, Finland, 76 pp., 1993.
- [778] K. J. NURMELA and P. R. J. ÖSTERGÅRD: Constructing covering designs by simulated annealing, Technical Report, Ser. B, No. 10, Helsinki University of Technology, Finland, 25 pp., 1993.
- [779] K. J. NURMELA and P. R. J. ÖSTERGÅRD: Upper bounds for covering designs by simulated annealing, *Congressus Numerantium*, vol. 96, pp. 93–111, 1993.
- [780] K. NYBERG: Constructions of bent functions and difference sets, *Lecture Notes in Computer Science*, No. 473, pp. 151–160, Springer-Verlag, 1991.
- [781] A. OBLAUKHOV: On metric regularity of Reed-Muller codes, *Designs Codes and Cryptography*, vol. 89, pp. 167–197, 2021.
- [782] J. E. OLSON and J. H. SPENCER: Balancing families of sets, *J. Combinatorial Th.*, Ser. A, vol. 25, pp. 29–37, 1978.
- [783] E. van OS: Packing density of codes, Ph. D. Thesis, Delft University of Technology, the Netherlands, 1993.
- [784] P. R. J. ÖSTERGÅRD: A new binary code of length 10 and covering radius 1, *IEEE Trans. Inform. Th.*, vol. 37, pp. 179–180, 1991.
- [785] P. R. J. ÖSTERGÅRD: Upper bounds for q -ary covering codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 660–664, 1991, and vol. 37, p. 1738, 1991.
- [786] P. R. J. ÖSTERGÅRD: Constructions of mixed covering codes, Research Report, Ser. A, No. 18, Helsinki University of Technology, Finland, 44 pp., 1991.
- [787] P. R. J. ÖSTERGÅRD: Further results on (k, t) -subnormal covering codes, *IEEE Trans. Inform. Th.*, vol. 38, pp. 206–210, 1992.
- [788] P. R. J. ÖSTERGÅRD: Construction methods for covering codes, Ph. D. Thesis, Research Report, Ser. A, No. 25, Helsinki University of Technology, Finland, 107 pp., 1993.

- [789] P. R. J. ÖSTERGÅRD: Construction methods for mixed covering codes, in: *Analysis, Algebra, and Computers in Mathematical Research*, Gyllenberg and Persson, Eds., pp. 387–408, New York: Dekker, 1994.
- [790] P. R. J. ÖSTERGÅRD: New upper bounds for the football pool problem for 11 and 12 matches, *J. Combinatorial Th.*, Ser. A, vol. 67, pp. 161–168, 1994.
- [791] P. R. J. ÖSTERGÅRD: New multiple covering codes by tabu search, *Australasian Journal of Combinatorics*, vol. 12, pp. 145–155, 1995.
- [792] P. R. J. ÖSTERGÅRD: A combinatorial proof for the football pool problem for six matches, *J. Combinatorial Th.*, Ser. A, vol. 76, pp. 160–163, 1996.
- [793] P. R. J. ÖSTERGÅRD: The football pool problem, *Congressus Numerantium*, vol. 114, pp. 33–43, 1996.
- [794] P. R. J. ÖSTERGÅRD: A coloring problem in Hamming spaces, *European J. Combinatorics*, vol. 18, pp. 303–309, 1997.
- [795] P. R. J. ÖSTERGÅRD: Constructing covering codes by tabu search, *J. Combinatorial Designs*, vol. 5, pp. 71–80, 1997.
- [796] P. R. J. ÖSTERGÅRD: On the 2-domatic number of binary Hamming spaces, Preprint, 1998.
- [797] P. R. J. ÖSTERGÅRD: New constructions for q -ary covering codes, *Ars Combinatoria*, vol. 52, pp. 51–63, 1999.
- [798] P. R. J. ÖSTERGÅRD: Disproof of a conjecture on the existence of balanced optimal covering codes, *IEEE Trans. Inform. Th.*, vol. 49, pp. 487–488, 2003.
- [799] P. R. J. ÖSTERGÅRD: Binary two-error-correcting codes are better than quaternary, *Applicable Algebra in Engineering, Communication and Computing*, vol. 14, pp. 89–96, 2003.
- [800] P. R. J. ÖSTERGÅRD and U. BLASS: On the size of optimal binary codes of length 9 and covering radius 1, *IEEE Trans. Inform. Th.*, vol. 47, pp. 2556–2557, 2001.
- [801] P. R. J. ÖSTERGÅRD and H. O. HÄMÄLÄINEN: New upper bounds for binary-ternary mixed covering codes, Research Report, Ser. A, No. 22, Helsinki University of Technology, Finland, 33 pp., 1993.
- [802] P. R. J. ÖSTERGÅRD and H. O. HÄMÄLÄINEN: A new table of binary/ternary mixed covering codes, *Designs, Codes and Cryptography*, vol. 11, pp. 151–178, 1997.
- [803] P. R. J. ÖSTERGÅRD and M. K. KAIKKONEN: New upper bounds for binary covering codes, *Discrete Mathematics*, vol. 178, pp. 165–179, 1998.
- [804] P. R. J. ÖSTERGÅRD and O. POTTONEN: The perfect binary one-error-correcting codes of length 15: Part I. Classification, *IEEE Trans. Inform. Th.*, vol. 55, pp. 4657–4660, 2009.

- [805] P. R. J. ÖSTERGÅRD, J. QUISTORFF and A. WASSERMANN: New results on codes with covering radius 1 and minimum distance 2, *Designs, Codes and Cryptography*, vol. 35, pp. 241–250, 2005.
- [806] P. R. J. ÖSTERGÅRD and E. A. SEURANEN: Constructing asymmetric covering codes by tabu search, *J. Combin. Math. and Combin. Comput.*, vol. 51, pp. 165–173, 2004.
- [807] P. R. J. ÖSTERGÅRD and E. A. SEURANEN: Unidirectional covering codes, *IEEE Trans. Inform. Th.*, vol. 52, pp. 336–340, 2006.
- [808] P. R. J. ÖSTERGÅRD and A. WASSERMANN: A new lower bound for the football pool problem for 6 matches, *J. Combinatorial Th.*, Ser. A, vol. 99, pp. 175–179, 2002.
- [809] P. R. J. ÖSTERGÅRD and W. D. WEAKLEY: Constructing covering codes with given automorphisms, *Designs, Codes and Cryptography*, vol. 16, pp. 65–73, 1999.
- [810] P. R. J. ÖSTERGÅRD and W. D. WEAKLEY: Classification of binary covering codes, *J. Combinatorial Designs*, vol. 8, pp. 391–401, 2000.
- [811] P. R. J. ÖSTERGÅRD and W. D. WEAKLEY: Classifying optimal ternary codes of length 5 and covering radius 1, *Contributions to Algebra and Geometry*, vol. 43, pp. 445–449, 2002.
- [812] P. R. J. ÖSTERGÅRD and W. D. WEAKLEY: Switching of covering codes, *Discrete Mathematics*, vol. 341, pp. 1778–1788, 2018.
- [813] W. M. C. J. van OVERVELD: The four cases of write unidirectional memory codes over arbitrary alphabets, *IEEE Trans. Inform. Th.*, vol. 37, pp. 872–878, 1991.
- [814] W. M. C. J. van OVERVELD: On the capacity region for deterministic two-way channels and write unidirectional memories, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 210 pp., 1991.
- [815] M. OZEKI: On covering radii and coset weight distributions of extremal binary self-dual codes of length 40, *Theoretical Computer Science*, vol. 235, No. 2, pp. 283–308, 2000.
- [816] M. OZEKI: On covering radii and coset weight distributions of extremal binary self-dual codes of length 56, *IEEE Trans. Inform. Th.*, vol. 46, pp. 2359–2372, 2000.
- [817] M. OZEKI: On the covering radius problem for ternary self-dual codes, *Theoretical Computer Science*, vol. 263, No. 1–2, pp. 311–332, 2001.
- [818] M. OZEKI: Jacobi polynomials for singly even self-dual codes and the covering radius problems, *IEEE Trans. Inform. Th.*, vol. 48, pp. 547–557, 2002.
- [819] J. PACH and J. H. SPENCER: Explicit codes with low covering radius, *IEEE Trans. Inform. Th.*, vol. 34, pp. 1281–1285, 1988.
- [820] V. I. PANCHENKO: Packings and coverings over an arbitrary alphabet, *Problemy Peredachi Informatsii*, vol. 24, No. 4, pp. 93–96, 1988. Translated in: *Problems of Inform. Transm.*, vol. 24, No. 4, pp. 331–333.

- [821] M. B. PATERSON and D. R. STINSON: Yet another hat game, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_17/v17i1toc.html, R86, 2010.
- [822] N. J. PATTERSON and D. H. WIEDEMANN: The covering radius of the $(2^{15}, 16)$ Reed-Muller code is at least 16276, *IEEE Trans. Inform. Th.*, vol. 29, pp. 354–356, 1983.
- [823] N. J. PATTERSON and D. H. WIEDEMANN: Correction to “The covering radius of the $(2^{15}, 16)$ Reed-Muller code is at least 16276”, *IEEE Trans. Inform. Th.*, vol. 36, p. 443, 1990.
- [824] R. PENROSE: Pentaplexity: a class of nonperiodic tilings of the plane, *Mathematical Intelligencer*, vol. 2, pp. 32–37, 1979.
- [825] W. W. PETERSON and E. J. WELDON, Jr.: *Error-Correcting Codes*, 2nd ed., Cambridge, MA: MIT Press, 1972.
- [826] K. T. PHELPS: A combinatorial construction of perfect codes, *SIAM J. Algebraic and Discrete Methods*, vol. 4, pp. 398–403, 1983.
- [827] K. T. PHELPS: A general product construction for error correcting codes, *SIAM J. Algebraic and Discrete Methods*, vol. 5, pp. 224–228, 1984.
- [828] K. T. PHELPS: A product construction for perfect codes over arbitrary alphabets, *IEEE Trans. Inform. Th.*, vol. 30, pp. 769–771, 1984.
- [829] K. T. PHELPS: Dual product constructions of Reed-Muller type codes, *IEEE Trans. Inform. Th.*, vol. 32, pp. 103–106, 1986.
- [830] K. T. PHELPS and M. LEVAN: Kernels of nonlinear Hamming codes, *Designs, Codes and Cryptography*, vol. 6, pp. 247–257, 1995.
- [831] K. T. PHELPS and M. LEVAN: Nonsystematic perfect codes, *SIAM J. Discrete Mathematics*, vol. 12, pp. 27–34, 1999.
- [832] A. PLAGNE: Points entiers sur les courbes strictement convexes, sommes de sous-ensembles et codes de recouvrement, Thèse, Université Bordeaux 1, France, 1998.
- [833] A. PLAGNE: A remark on Haas’ method, *Discrete Mathematics*, vol. 309, pp. 3318–3322, 2009.
- [834] V. S. PLESS: On the uniqueness of the Golay codes, *J. Combinatorial Th.*, vol. 5, pp. 215–228, 1968.
- [835] V. S. PLESS: *Introduction to the Theory of Error-Correcting Codes*, 2nd ed., New York: Wiley, 1989.
- [836] M. PLOTKIN: Binary codes with specified minimum distances, *IEEE Trans. Inform. Th.*, vol. 6, pp. 445–450, 1960.
- [837] M. POGGI DE ARAGÃO and C. C. DE SOUZA: Upper bounds for minimum covering codes via tabu search, *Proc. Third Metaheuristics Internat. Conf.*, pp. 359–364, Angra dos Reis, 1999.
- [838] K. A. POST: Nonexistence theorems on perfect Lee codes over large alphabets, *Information and Control*, vol. 29, pp. 369–380, 1975.

- [839] C. L. M. van PUL: On bounds on codes, Master's Thesis, Eindhoven University of Technology, the Netherlands, 99 pp., 1982.
- [840] C. L. M. van PUL: Some distance problems in coding theory, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 1987.
- [841] C. L. M. van PUL and T. ETZION: New lower bounds for constant weight codes, *IEEE Trans. Inform. Th.*, vol. 35, pp. 1324–1329, 1989.
- [842] J. QUISTORFF: On full partial quasigroups of finite order and local cardinal maximum codes, *Contributions to Algebra and Geometry*, vol. 40, pp. 495–502, 1999.
- [843] J. QUISTORFF: On codes with given minimum distance and covering radius, *Contributions to Algebra and Geometry*, vol. 42, pp. 601–611, 2001.
- [844] J. QUISTORFF: Improved sphere bounds in finite metric spaces, *Bull. Inst. Combin. Appl.*, vol. 46, pp. 69–80, 2006.
- [845] J. QUISTORFF: A survey on packing and covering problems in the Hamming permutation space, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_13/v13i1toc.html, A1, 2006.
- [846] J. QUISTORFF and J. C. SCHLAGE-PUCHTA: On generalized surjective codes, *Studia Scientiarum Mathematicarum Hungarica*, vol. 48, pp. 75–92, 2011.
- [847] A. O. H. RACSMÁNY: Perfect single-Lee-error-correcting codes, *Studia Sci. Math. Hungar.*, vol. 9, pp. 73–75, 1974.
- [848] A. O. H. RACSMÁNY: Correction to my paper: “Perfect single-Lee-error-correcting codes”, *Studia Sci. Math. Hungar.*, vol. 23, pp. 295–296, 1988.
- [849] H. RADDUM: On the computation of coset leaders with high Hamming weight, *Discrete Mathematics*, vol. 274, pp. 213–231, 2004.
- [850] M. RAMRAS: Bipartite dominating sets in hypercubes, *Ars Combinatoria*, vol. 77, pp. 169–180, 2005.
- [851] T. R. N. RAO: *Error Coding for Arithmetic Processors*, New York: Academic Press, 1974.
- [852] M. K. RAUT and M. K. GUPTA: On octonary codes and their covering radii, *Australasian Journal of Combinatorics*, vol. 63, pp. 246–261, 2015.
- [853] A. RÉNYI: *Foundations of Probability*, New York: Wiley, 1971.
- [854] H. F. H. REUVERS: Some non-existence theorems for perfect codes over arbitrary alphabets, Thesis, Eindhoven University of Technology, the Netherlands, 1977.
- [855] J. RIFÁ and L. HUGUET: Characterization of completely regular graphs through P -polynomial association schemes, *Lecture Notes in Computer Science*, No. 307, pp. 157–167, Springer-Verlag, 1988.
- [856] J. RIFÁ and J. PUJOL: Translation-invariant propelinear codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 590–598, 1997.

- [857] J. RIFÁ and V. A. ZINOVIEV: On a class of binary linear completely transitive codes with arbitrary covering radius, *Discrete Mathematics*, vol. 309, pp. 5011–5016, 2009.
- [858] J. RIFÁ and V. A. ZINOVIEV: On a family of binary linear completely transitive codes with growing covering radius, *Discrete Mathematics*, vol. 318, pp. 48–52, 2014.
- [859] R. L. RIVEST and A. SHAMIR: How to reuse a “write-once” memory, *Information and Control*, vol. 55, pp. 1–19, 1982.
- [860] J. P. ROBINSON: An asymmetric error-correcting ternary code, *IEEE Trans. Inform. Th.*, vol. 24, pp. 258–261, 1978.
- [861] S. ROBINSON: Why mathematicians now care about their hat color, *The New York Times*, April 10, 2001.
- [862] E. R. RODEMICH: Coverings by rook domains, *J. Combinatorial Th.*, Ser. A, vol. 9, pp. 117–128, 1970.
- [863] F. RODIER: On the weights of the elements of the duals of binary BCH codes, *Lecture Notes in Computer Science*, No. 539, pp. 384–390, Springer-Verlag, 1991.
- [864] F. RODIER: On the spectra of the duals of binary BCH codes of designed distance $\delta = 9$, *IEEE Trans. Inform. Th.*, vol. 38, pp. 478–479, 1992.
- [865] F. RODIER: On a conjecture of MacWilliams and Sloane, *CISM Courses and Lectures*, No. 339, pp. 89–95, Springer-Verlag, 1993.
- [866] V. RÖDL: On a packing and covering problem, *European J. Combinatorics*, vol. 6, pp. 69–78, 1985.
- [867] C. ROGERS: *Packing and covering*, New York: Cambridge University Press, 1964.
- [868] A. M. ROMANOV: New binary codes with minimal distance three, *Problemy Peredachi Informatsii*, vol. 19, No. 3, pp. 101–102, 1983 (in Russian).
- [869] A. M. ROMANOV: On the number of q -ary quasi-perfect codes with covering radius 2, *Designs, Codes and Cryptography*, vol. 90, pp. 1713–1719, 2022.
- [870] C. ROOS: A note on the existence of perfect constant weight codes, *Discrete Mathematics*, vol. 47, pp. 121–123, 1983.
- [871] J. E. ROOS: An algebraic study of group and nongroup error-correcting codes, *Information and Control*, vol. 8, pp. 195–214, 1965.
- [872] O. ROTHBAUS: On “bent” functions, *J. Combinatorial Th.*, Ser. A, vol. 20, pp. 300–305, 1976.
- [873] G. ROUX: k -propriétés dans des tableaux de n colonnes: cas particulier de la k -surjectivité et de la k -permutivité, Thèse, Université Paris 6, France, 133 pp., 1987.
- [874] J. A. RUSH: Thin lattice coverings, *J. London Math. Soc. (2)*, vol. 45, pp. 193–200, 1992.
- [875] S. SAIDI: Codes for perfectly correcting errors of limited size, *Discrete Mathematics*, vol. 118, pp. 207–223, 1993.

- [876] M. SÁNCHEZ-GARCÍA, M. SOBRÓN and B. VITORIANO: On the set covering polytope: Facets with coefficients in $\{0, 1, 2, 3\}$, *Annals of Operations Research*, vol. 81, pp. 343–356, 1998.
- [877] P. SAVICKÝ: On the bent Boolean functions that are symmetric, *European J. Combinatorics*, vol. 15, pp. 407–410, 1994.
- [878] J. R. SCHATZ: On the coset leaders of Reed-Muller codes, Ph. D. Thesis, Syracuse University, United States, 1979.
- [879] J. R. SCHATZ: The second order Reed-Muller code of length 64 has covering radius 18, *IEEE Trans. Inform. Th.*, vol. 27, pp. 529–530, 1981.
- [880] W. M. SCHMIDT: *Equations Over Finite Fields: an Elementary Approach*, Berlin: Springer-Verlag, 1976.
- [881] J. SCHÖNHEIM: On maximal systems of k -tuples, *Studia Sci. Math. Hungar.*, vol. 1, pp. 363–368, 1966.
- [882] J. SCHÖNHEIM: On linear and nonlinear single-error-correcting q -nary perfect codes, *Information and Control*, vol. 12, pp. 23–26, 1968.
- [883] J. SCHÖNHEIM: Semilinear codes and some combinatorial applications of them, *Information and Control*, vol. 15, pp. 61–66, 1969.
- [884] J. SCHÖNHEIM: Mixed codes, *Proc. Calgary Internat. Conf. on Combinatorial Structures and Their Applications*, p. 385, New York: Gordon and Breach, 1970.
- [885] N. V. SEMAKOV, V. A. ZINOVIEV and G. V. ZAITSEV: Uniformly packed codes, *Problemy Peredachi Informatsii*, vol. 7, No. 1, pp. 38–50, 1971. Translated in: *Problems of Inform. Transm.*, vol. 7, No. 1, pp. 30–39.
- [886] G. SEROUSSI and N. H. BSHOUTY: Vector sets for exhaustive testing of logic circuits, *IEEE Trans. Inform. Th.*, vol. 34, pp. 513–522, 1988.
- [887] G. SEROUSSI and A. LEMPEL: Maximum likelihood decoding of certain Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 29, pp. 448–450, 1983.
- [888] E. A. SEURANEN: New lower bounds for multiple coverings, *Designs, Codes and Cryptography*, vol. 45, pp. 91–94, 2007.
- [889] E. A. SEURANEN and P. R. J. ÖSTERGÅRD: New lower bounds for asymmetric covering codes, *Congressus Numerantium*, vol. 178, pp. 57–63, 2006.
- [890] C. E. SHANNON: Coding theorems for a discrete source with a fidelity criterion, Institute of Radio Engineers, *Internat. Convention Record*, vol. 7, part 4, pp. 142–163, 1959. Also in: *Key Papers in the Development of Information Theory*, Slepian, Ed., pp. 245–266, IEEE Press, 1973. Also in: *Collected Papers*, Sloane and Wyner, Eds., pp. 325–350, IEEE Press, 1993.
- [891] C. E. SHANNON: *Collected Papers*, Sloane and Wyner, Eds., IEEE Press, 1993.

- [892] H. S. SHAPIRO and D. L. SLOTNICK: On the mathematical theory of error correcting codes, *IBM J. Res. Develop.*, vol. 3, pp. 25–37, 1959.
- [893] I. I. SHARAPUDINOV: Asymptotic properties of Krawtchouk polynomials, *Math. Notes*, vol. 44, pp. 855–862, 1988.
- [894] M. SHI, T. HELLESETH, F. ÖZBUDAK and P. SOLÉ: Covering radius of Melas codes, *IEEE Trans. Inform. Th.*, vol. 68, pp. 4354–4364, 2022.
- [895] I. E. SHPARLINSKI: *Computational and Algorithmic Problems in Finite Fields*, Dordrecht: Kluwer, 1992.
- [896] V. M. SIDEL'NIKOV: Weight spectrum of binary Bose-Chaudhuri-Hocquenghem codes, *Problemy Peredachi Informatsii*, vol. 7, No. 1, pp. 14–22, 1971. Translated in: *Problems of Inform. Transm.*, vol. 7, No. 1.
- [897] J. SIMONIS: The minimal covering radius $t[15, 6]$ of a 6-dimensional binary linear code of length 15 is equal to 4, *IEEE Trans. Inform. Th.*, vol. 34, pp. 1344–1345, 1988.
- [898] J. SIMONIS: Covering radius: improving on the sphere-covering bound, *Lecture Notes in Computer Science*, No. 357, pp. 377–385, Springer-Verlag, 1989.
- [899] G. SIMONYI: On write-unidirectional memory codes, *IEEE Trans. Inform. Th.*, vol. 35, pp. 663–669, 1989.
- [900] T. SKOLEM, P. CHOWLA and D. J. LEWIS: The diophantine equation $2^{n-2} - 7 = x^2$ and related problems, *Proc. American Math. Soc.*, vol. 10, pp. 663–669, 1959.
- [901] A. N. SKOROBOGATOV: On the covering radius of BCH codes, *Proc. Third Soviet-Swedish Internat. Workshop on Information Theory*, pp. 308–309, Sochi, 1987.
- [902] A. N. SKOROBOGATOV: The parameters of subcodes of algebraic-geometric codes over prime subfields, *Discrete Applied Mathematics*, vol. 33, pp. 205–214, 1991.
- [903] N. J. A. SLOANE: A new approach to the covering radius of codes, *J. Combinatorial Th.*, Ser. A, vol. 42, pp. 61–86, 1986.
- [904] N. J. A. SLOANE: Unsolved problems related to the covering radius of codes, in: *Open Problems in Communication and Computation*, pp. 51–56, Springer-Verlag, 1987.
- [905] N. J. A. SLOANE: Covering arrays and intersecting codes, *J. Combinatorial Designs*, vol. 1, pp. 51–63, 1993.
- [906] N. J. A. SLOANE and E. R. BERLEKAMP: Weight enumerator for second-order Reed-Muller codes, *IEEE Trans. Inform. Th.*, vol. 16, pp. 745–751, 1970.
- [907] N. J. A. SLOANE and R. J. DICK: On the enumeration of cosets of first order Reed-Muller codes, *Proc. IEEE Internat. Conf. on Communications*, vol. 7, pp. 362–366, 1971.

- [908] N. J. A. SLOANE, S. M. REDDY and C. L. CHEN: New binary codes, *IEEE Trans. Inform. Th.*, vol. 18, pp. 503–510, 1972.
- [909] N. J. A. SLOANE and V. A. VAISHAMPAYAN: A Zador-like formula for quantizers based on periodic tilings, *IEEE Trans. Inform. Th.*, vol. 48, pp. 3138–3140, 2002.
- [910] D. H. SMITH: Perfect codes in the graphs O_k and $L(O_k)$, *Glasgow Math. J.*, vol. 21, pp. 169–172, 1980.
- [911] S. L. SNOVER: The uniqueness of the Nordstrom-Robinson and the Golay binary codes, Ph. D. Thesis, Michigan State University, United States, 1973.
- [912] P. SOLÉ: Rayon de recouvrement et schémas d'association, Thèse, Télécom Paris, France, 66 pp., 1987.
- [913] P. SOLÉ: A Lloyd theorem in weakly metric association schemes, *European J. Combinatorics*, vol. 10, pp. 189–196, 1989.
- [914] P. SOLÉ: A limit law on the distance distribution of binary codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 229–232, 1990.
- [915] P. SOLÉ: Asymptotic bounds on the covering radius of binary codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1470–1472, 1990.
- [916] P. SOLÉ: Covering codes and combinatorial optimization, *Lecture Notes in Computer Science*, No. 539, pp. 426–433, Springer-Verlag, 1991.
- [917] P. SOLÉ: Packing radius, covering radius, and dual distance, *IEEE Trans. Inform. Th.*, vol. 41, pp. 268–272, 1995.
- [918] P. SOLÉ: Higher order covering radii, *Proc. Workshop on Coding and Cryptography '99*, pp. 251–260, Paris, 1999.
- [919] P. SOLÉ, A. GHAFOOR and S. A. SHEIKH: The covering radius of Hadamard codes in odd graphs, *Discrete Applied Mathematics*, vol. 37/38, pp. 501–510, 1992.
- [920] P. SOLÉ and K. G. MEHROTRA: Generalization of the Norse bounds to codes of higher strength, *IEEE Trans. Inform. Th.*, vol. 37, pp. 190–192, 1991.
- [921] P. SOLÉ and P. STOKES: Covering radius, codimension, and dual-distance width, *IEEE Trans. Inform. Th.*, vol. 39, pp. 1195–1203, 1993.
- [922] P. SOLÉ and T. ZASLAVSKY: The covering radius of the cycle code of a graph, *Discrete Applied Mathematics*, vol. 45, pp. 63–70, 1993.
- [923] F. I. SOLOV'EVA: On binary nongroup codes, *Methodi Diskr. Analiza*, vol. 37, pp. 65–76, 1981 (in Russian).
- [924] F. I. SOLOV'EVA: Factorization of code-generating disjunctive normal forms, *Methodi Diskr. Analiza*, vol. 47, pp. 66–88, 1988 (in Russian).

- [925] F. I. SOLOV'EVA: A class of binary perfect codes generated by q -ary codes, *Methodi Diskr. Analiza*, vol. 48, pp. 70–72, 1989 (in Russian).
- [926] F. I. SOLOV'EVA: Perfect codes and their projections, *Proc. 3rd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 147–150, Voneshta Voda, 1992.
- [927] F. I. SOLOV'EVA: A combinatorial construction of perfect binary codes, *Proc. 4th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 171–174, Novgorod, 1994.
- [928] J. H. SPENCER: Probabilistic methods, *Graphs and Combinatorics*, vol. 1, pp. 357–382, 1985.
- [929] J. H. SPENCER: Six standard deviations suffice, *Trans. American Math. Soc.*, vol. 289, pp. 679–706, 1985.
- [930] R. G. STANTON: Covering theorems in groups (or: how to win at football pools), in: *Recent Progress in Combinatorics*, Tutte, Ed., pp. 21–36, New York: Academic Press, 1969.
- [931] R. G. STANTON, J. D. HORTON and J. G. KALBFLEISCH: Covering theorems for vectors with special reference to the case of four and five components, *J. London Math. Soc. (2)*, vol. 1, pp. 493–499, 1969.
- [932] R. G. STANTON and J. G. KALBFLEISCH: Covering problems for dichotomized matchings, *Aequationes Mathematicae*, vol. 1, pp. 94–103, 1968.
- [933] R. G. STANTON and J. G. KALBFLEISCH: Intersection inequalities for the covering problem, *SIAM J. Applied Mathematics*, vol. 17, pp. 1311–1316, 1969.
- [934] S. K. STEIN: Factoring by subsets, *Pacific J. Math.*, vol. 22, pp. 523–541, 1967.
- [935] S. K. STEIN: Algebraic tiling, *American Mathematical Monthly*, vol. 81, pp. 445–462, 1974.
- [936] S. K. STEIN: Two combinatorial covering problems, *J. Combinatorial Th.*, Ser. A, vol. 16, pp. 391–397, 1974.
- [937] F. STERBOUL: Le problème du loto, *Proc. Colloque Internat. Mathématiques Discrètes: Codes et Hypergraphes*, Brussels, 1978.
- [938] J. STERN: Approximating the number of error locations within a constant ratio is NP-complete, *Lecture Notes in Computer Science*, No. 673, pp. 325–331, Springer-Verlag, 1993.
- [939] P. STOKES: Some properties of the covering radius of error-correcting codes, Ph. D. Thesis, University of London, England, 1992.
- [940] P. STOKES: The domain of covering codes, *Lecture Notes in Math.*, No. 1518, pp. 170–177, Springer-Verlag, 1993.
- [941] R. J. STROEKER and B. M. M. de WEGER: On a quartic diophantine equation, *Proc. Edinburgh Math. Soc.*, vol. 39, pp. 97–114, 1996.
- [942] R. STRUIK: Constructive non-existence proofs for covering codes, Presented at Oberwolfach Seminar on Information Theory, 1992.

- [943] R. STRUIK: Constructive non-existence proofs for linear covering codes, *Proc. IEEE Symp. on Information Theory*, p. 369, San Antonio, 1993.
- [944] R. STRUIK: An improvement of the van Wee bound for binary linear covering codes, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1280–1284, 1994.
- [945] R. STRUIK: On the structure of linear codes with covering radius two and three, *IEEE Trans. Inform. Th.*, vol. 40, pp. 1406–1416, 1994.
- [946] R. STRUIK: Covering codes, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 106 pp., 1994.
- [947] G. SZEGÖ: *Orthogonal Polynomials*, Colloquium Publications, vol. 23, New York: American Math. Soc., 1959.
- [948] T. SZÖNYI: Small complete arcs in Galois planes, *Geometriae Dedicata*, vol. 18, pp. 161–172, 1985.
- [949] K. TANABE: Ozeki's polynomials and calculation of the covering radius of codes, *Surikaisekikenkyusho Kokyuroku*, No. 1228, pp. 51–60, 2001 (in Japanese).
- [950] H. TARNANEN: On character sums and codes, *Discrete Mathematics*, vol. 57, pp. 285–295, 1985.
- [951] H. TARNANEN: An elementary proof to the weight distribution formula of the first order shortened Reed-Muller coset code, *Applicable Algebra in Engineering, Communication and Computing*, vol. 8, pp. 421–424, 1997.
- [952] O. TAUSSKY and J. TODD: Covering theorems for groups, *Ann. Soc. Polonaise de Math.*, vol. 21, pp. 303–305, 1948.
- [953] O. TAUSSKY and J. TODD: Some discrete variable computations, *American Math. Soc. Proc. Symp. in Applied Math.*, pp. 201–209, Providence, 1960.
- [954] J. A. THAS: Two infinite classes of perfect codes in metrically regular graphs, *J. Combinatorial Th.*, Ser. B, vol. 23, pp. 236–238, 1977.
- [955] T. M. THOMPSON: *From Error-Correcting Codes Through Sphere Packings to Simple Groups*, AMS: Carus Mathematical Monographs 21, 1983.
- [956] Z. P. TIAN: The football pool problem for $(3^r - 1)/2$ matches: $A((3^r - 1)/2) = 3^{(3^r - 1)/2 - r}$, *Mathematics in Practice and Theory*, vol. 1, pp. 54–56, 1988 (in Chinese).
- [957] A. TIETÄVÄINEN: On the nonexistence of perfect 4-Hamming-error-correcting codes, *Ann. Acad. Sci. Fennicae*, Ser. A I, No. 485, pp. 1–6, 1970.
- [958] A. TIETÄVÄINEN: On the nonexistence of perfect codes over finite fields, *SIAM J. Applied Mathematics*, vol. 24, pp. 88–96, 1973. Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., pp. 252–260, IEEE Press, 1974.

- [959] A. TIETÄVÄINEN: A short proof for the nonexistence of unknown perfect codes over $GF(q)$, $q > 2$, *Ann. Acad. Sci. Fennicae*, Ser. A I, No. 580, pp. 1–6, 1974.
- [960] A. TIETÄVÄINEN: Nonexistence of nontrivial perfect codes in case $q = p_1^r p_2^s$, $e \geq 3$, *Discrete Mathematics*, vol. 17, pp. 199–205, 1977.
- [961] A. TIETÄVÄINEN: On the covering radius of long binary BCH codes, *Discrete Applied Mathematics*, vol. 16, pp. 75–77, 1987.
- [962] A. TIETÄVÄINEN: Codes and character sums, *Lecture Notes in Computer Science*, No. 388, pp. 3–12, Springer-Verlag, 1989.
- [963] A. TIETÄVÄINEN: An asymptotic bound on the covering radii of binary BCH codes, *IEEE Trans. Inform. Th.*, vol. 36, pp. 211–213, 1990.
- [964] A. TIETÄVÄINEN: An upper bound on the covering radius as a function of the dual distance, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1472–1474, 1990.
- [965] A. TIETÄVÄINEN: On the covering radii of Reed-Muller codes, *Proc. 2nd Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 211–214, Leningrad, 1990.
- [966] A. TIETÄVÄINEN: Covering radius and dual distance, *Designs, Codes and Cryptography*, vol. 1, pp. 31–46, 1991.
- [967] A. TIETÄVÄINEN and A. PERKO: There are no unknown perfect binary codes, *Ann. Univ. Turku*, Ser. A I, No. 148, pp. 3–10, 1971.
- [968] H. C. A. van TILBORG: All binary, (n, e, r) -uniformly packed codes are known, Memorandum 1975-08, Eindhoven University of Technology, the Netherlands, 1975.
- [969] H. C. A. van TILBORG: Uniformly packed codes, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 76 pp., 1976.
- [970] H. C. A. van TILBORG: On the uniqueness (resp. non existence) of certain codes meeting the Griesmer bound, *Information and Control*, vol. 44, pp. 16–35, 1980.
- [971] H. C. A. van TILBORG: *Error-Correcting Codes — A First Course*, Studentlitteratur, Lund, 1993.
- [972] D. T. TODOROV: A table for the coverings of pairs, *Proc. 15th Conf. of the Union of Bulgarian Mathematicians*, pp. 472–481, 1986.
- [973] H. P. TSAI: The covering radius of extremal self-dual code D_{11} and its application, *IEEE Trans. Inform. Th.*, vol. 43, pp. 316–319, 1997.
- [974] M. TSFASMAN and S. G. VLÄDUTS: *Algebraic-Geometric Codes*, Dordrecht: Kluwer, 1991.
- [975] P. TURÁN: An extremal problem in graph theory, *Math. Fiz. Lapok*, vol. 48, pp. 436–452, 1941 (in Hungarian).
- [976] P. TURÁN: On the theory of graphs, *Colloq. Math.*, vol. 3, pp. 146–163, 1954.

- [977] P. TURÁN: Research problems, *Magyar Tud. Akad. Mat. Kutató Int. Közl.*, vol. 6, pp. 417–423, 1961.
- [978] S. TUTDERE: On the covering radii of a class of binary primitive cyclic codes, *Hacettepe Journal of Mathematics and Statistics*, vol. 51, pp. 20–26, 2022.
- [979] N. TZANAKIS: Solving elliptic diophantine equations by estimating linear forms in elliptic logarithms. The case of quartic equations, *Acta Arith.*, vol. 75, pp. 165–190, 1996.
- [980] N. F. TZENG and G. L. FENG: Resource allocation in cube network systems based on the covering radius, *IEEE Trans. Parallel and Distributed Systems*, vol. 7, pp. 328–342, 1996.
- [981] R. J. M. VAESSENS, E. H. L. AARTS and J. H. van LINT: Genetic algorithms in coding theory—A table for $A_3(n, d)$, *Discrete Applied Mathematics*, vol. 45, pp. 71–87, 1993.
- [982] A. VARDY: The intractability of computing the minimum distance of a code, *IEEE Trans. Inform. Th.*, vol. 43, pp. 1757–1766, 1997.
- [983] A. VARDY and Y. BE’ERY: Maximum-likelihood soft decision decoding of BCH codes, *IEEE Trans. Inform. Th.*, vol. 40, pp. 546–554, 1994.
- [984] A. VARDY and T. ETZION: Some constructions of perfect codes, *Lecture Notes in Computer Science*, No. 673, pp. 344–354, Springer-Verlag, 1993.
- [985] R. R. VARSHAMOV: Estimate of the number of signals in error-correcting codes, *Dokl. Akad. Nauk SSSR*, vol. 117, pp. 739–741, 1957 (in Russian).
- [986] W. B. VASANTHA and R. S. SELVARAJ: Multi-covering radii of codes with rank metric, *Proc. IEEE Workshop on Information Theory*, p. 215, Bangalore, 2002.
- [987] W. B. VASANTHA and R. S. SELVARAJ: Multi-covering radius for rank metric codes, *Electronic J. Combinatorics*, http://www.combinatorics.org/Volume_16/v16i1toc.html, R147, 2009.
- [988] W. B. VASANTHA KANDASAMY, F. SMARANDACHE, N. SURESH BABU and R. S. SELVARAJ: Rank distance bicodes and their generalization, <http://arxiv.org/pdf/1004.2881.pdf>
- [989] W. B. VASANTHA and N. SURESH BABU: Relation between the covering radius and minimum distance of indecomposable binary cyclic codes over 2-groups, *Mathematics Today*, vol. 12, pp. 53–56, 1994.
- [990] W. B. VASANTHA and N. SURESH BABU: On the covering radius of rank-distance codes, *Ganita Sandesh*, vol. 13, pp. 43–48, 1999.
- [991] J. L. VASILIEV: On nongroup close-packed codes, *Problemy Kibernetiki*, vol. 8, pp. 337–339, 1962 (in Russian). Also in: *Key Papers in the Development of Coding Theory*, Berlekamp, Ed., p. 100, IEEE Press, 1974.
- [992] J. L. VASILIEV and F. I. SOLOV’EVA: Interdependence between perfect binary codes and their projections, *Proc. Seventh Joint Swedish-Russian Internat. Workshop on Information Theory*, pp. 239–242, St-Petersburg, 1995.

- [993] J. L. VASILIEV and F. I. SOLOV'eva: Code-generating factorizations of the n -dimensional unit cube and of perfect binary codes, *Problemy Peredachi Informatsii*, vol. 33, No. 1, pp. 64–74, 1997. Translated in: *Problems of Inform. Transm.*, vol. 33, No. 1, pp. 53–61.
- [994] E. D. VELIKOVA: On the covering radius of some binary cyclic codes, *Annuaire de l'Université de Sofia, Faculté de Mathématiques et Informatique*, vol. 82, pp. 119–125, 1988.
- [995] E. D. VELIKOVA: Bounds on covering radius of linear codes, *Comptes-Rendus de l'Académie Bulgare des Sciences*, vol. 41, pp. 13–16, 1988.
- [996] E. D. VELIKOVA: Covering radius of some cyclic codes, *Proc. Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 165–169, Varna, 1988.
- [997] E. D. VELIKOVA: A generalization of some upper bounds on covering radius under an arbitrary additive metric, *Problems of Control and Information Th.*, vol. 19, No. 5–6, pp. 445–450, 1990.
- [998] E. D. VELIKOVA: The covering radius of two-dimensional codes over $GF(4)$, *Proc. 4th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 190–193, Novgorod, 1994.
- [999] E. D. VELIKOVA and A. BOJILOV: An upper bound on the covering radius of a class of cyclic codes, *Proc. 11th Internat. Workshop on Algebraic and Combinatorial Coding Theory*, pp. 300–304, Pamporovo, 2008.
- [1000] E. D. VELIKOVA and K. N. MANEV: The covering radius of cyclic codes of lengths 33, 35 and 39, *Annuaire de l'Université de Sofia, Faculté de Mathématiques et Informatique*, vol. 81, pp. 215–223, 1987.
- [1001] T. VERHOEFF: An updated table of minimum-distance bounds for binary linear codes, *IEEE Trans. Inform. Th.*, vol. 33, pp. 665–680, 1987.
- [1002] S. G. VLÄDUTS and A. N. SKOROBOGATOV: Covering radius for long BCH codes, *Problemy Peredachi Informatsii*, vol. 25, No. 1, pp. 38–45, 1989. Translated in: *Problems of Inform. Transm.*, vol. 25, No. 1, pp. 28–34.
- [1003] L. F. VSEVOLOD: Generating binary spaces, *J. Combinatorial Th.*, Ser. A, vol. 102, pp. 94–109, 2003.
- [1004] V. H. VU: De Bruijn covering codes with arbitrary alphabets, *Advances in Applied Mathematics*, vol. 34, pp. 65–70, 2005.
- [1005] Q. WANG: The covering radius of the Reed-Muller code $RM(2, 7)$ is 40, *Discrete Mathematics*, vol. 342, Article 111625, 2019.
- [1006] Q. WANG and P. STĂNICĂ: New bounds on the covering radius of the second order Reed-Muller code of length 128, *Cryptography and Communications*, vol. 11, pp. 269–277, 2019.
- [1007] Q. WANG, C. H. TAN and T. F. PRABOWO: On the covering radius of the third order Reed-Muller code $RM(3, 7)$, *Designs, Codes and Cryptography*, vol. 86, pp. 151–159, 2018.

- [1008] W. D. WEAKLEY: Optimal binary covering codes of length 2^j , *J. Combinatorial Designs*, vol. 14, pp. 1–13, 2006.
- [1009] E. W. WEBER: On the football pool problem for 6 matches: a new upper bound, *J. Combinatorial Th.*, Ser. A, vol. 35, pp. 106–108, 1983.
- [1010] G. J. M. van WEE: Improved sphere bounds on the covering radius of codes, *IEEE Trans. Inform. Th.*, vol. 34, pp. 237–245, 1988.
- [1011] G. J. M. van WEE: More binary covering codes are normal, *IEEE Trans. Inform. Th.*, vol. 36, pp. 1466–1470, 1990.
- [1012] G. J. M. van WEE: Covering codes, perfect codes, and codes from algebraic curves, Ph. D. Thesis, Eindhoven University of Technology, the Netherlands, 209 pp., 1991.
- [1013] G. J. M. van WEE: On the non-existence of certain perfect mixed codes, *Discrete Mathematics*, vol. 87, pp. 323–326, 1991.
- [1014] G. J. M. van WEE: Bounds on packings and coverings by spheres in q -ary and mixed Hamming spaces, *J. Combinatorial Th.*, Ser. A, vol. 57, pp. 117–129, 1991.
- [1015] G. J. M. van WEE: Some new lower bounds for binary and ternary covering codes, *IEEE Trans. Inform. Th.*, vol. 39, pp. 1422–1424, 1993.
- [1016] G. J. M. van WEE, G. D. COHEN and S. LITSYN: A note on perfect multiple coverings of the Hamming space, *IEEE Trans. Inform. Th.*, vol. 37, pp. 678–682, 1991.
- [1017] V. K. WEI: Generalized Hamming weights for linear codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 1412–1418, 1991.
- [1018] P. M. WEICHSEL: Dominating sets in n -cubes, *J. Graph Th.*, vol. 18, No. 5, pp. 479–488, 1994.
- [1019] A. WEIL: On some exponential sums, *Proc. Nat. Acad. Sci.*, vol. 34, pp. 204–207, 1948.
- [1020] L. T. WILLE: The football pool problem for 6 matches: a new upper bound obtained by simulated annealing, *J. Combinatorial Th.*, Ser. A, vol. 45, pp. 171–177, 1987.
- [1021] L. T. WILLE: Personal communication, 1987.
- [1022] L. T. WILLE: Improved binary code coverings by simulated annealing, *Congressus Numerantium*, vol. 73, pp. 53–58, 1990.
- [1023] L. T. WILLE: New binary covering codes obtained by simulated annealing, *IEEE Trans. Inform. Th.*, vol. 42, pp. 300–302, 1996.
- [1024] F. M. J. WILLEMS: Converses for write-unidirectional memories, Report 89-E-220, Eindhoven University of Technology, the Netherlands, 12 pp., 1989.
- [1025] H. S. WITSENHAUSEN and A. D. WYNER: On storage media with aftereffects, *Information and Control*, vol. 56, pp. 199–211, 1983.

- [1026] J. K. WOLF, A. D. WYNER, J. ZIV and J. KÖRNER: Coding for a “write-once” memory, *AT & T Bell Lab. Tech. J.*, vol. 63, No. 6, 1984.
- [1027] J. WOLFMANN: Codes projectifs à deux poids, “caps” complets et ensembles de différences, *J. Combinatorial Th.*, Ser. A, vol. 23, pp. 208–222, 1977.
- [1028] J. WOLFMANN: Résultats sur les paramètres des codes linéaires, *Revue CETHEDDEC*, vol. 2, pp. 25–33, 1979.
- [1029] J. WOLFMANN: The weight of orthogonals of certain cyclic codes or extended Goppa codes, *Lecture Notes in Computer Science*, No. 357, pp. 476–480, Springer-Verlag, 1989.
- [1030] X. WU: Optimal binary vector quantization via enumeration of covering codes, *IEEE Trans. Inform. Th.*, vol. 43, pp. 638–645, 1997.
- [1031] A. D. WYNER and J. ZIV: On communication of analog data from a bounded source space, *Bell Syst. Tech. J.*, vol. 48, pp. 3139–3172, 1969.
- [1032] B. XIA: The covering radius of $\text{PGL}_2(q)$, *Discrete Mathematics*, vol. 340, pp. 2469–2471, 2017.
- [1033] Ø. YTREHUS: Binary $[18, 11]_2$ codes do not exist—nor do $[64, 53]_2$ codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 349–351, 1991.
- [1034] G. V. ZAITSEV, V. A. ZINOVIEV and N. V. SEMAKOV: Interrelation of Preparata and Hamming codes and extension of Hamming codes to new double-error-correcting codes, *Proc. Second Internat. Symp. on Information Theory*, pp. 257–263, Tsahkadsor, 1971.
- [1035] S. K. ZAREMBA: A covering theorem for abelian groups, *J. London Math. Soc.*, vol. 26, pp. 71–72, 1950.
- [1036] S. K. ZAREMBA: Covering problems concerning abelian groups, *J. London Math. Soc.*, vol. 27, pp. 242–246, 1952.
- [1037] B. ZELINKA: Domatic numbers of cube graphs, *Math. Slovaca*, vol. 32, pp. 117–119, 1982.
- [1038] G. ZÉMOR: Problèmes combinatoires liés à l’écriture sur des mémoires, Thèse, Télécom Paris, France, 109 pp., 1989.
- [1039] G. ZÉMOR: An extremal problem related to the covering radius of binary codes, *Lecture Notes in Computer Science*, No. 573, pp. 42–51, Springer-Verlag, 1992.
- [1040] G. ZÉMOR: Subset sums in binary spaces, *European J. Combinatorics*, vol. 13, pp. 221–230, 1992.
- [1041] G. ZÉMOR: An extremal problem related to the covering radius of binary codes, *Lecture Notes in Computer Science*, No. 573, pp. 42–51, Springer-Verlag, 1992.
- [1042] G. ZÉMOR and G. D. COHEN: Error-correcting WOM-codes, *IEEE Trans. Inform. Th.*, vol. 37, pp. 730–734, 1991.
- [1043] G. ZÉMOR and G. D. COHEN: Application of coding theory to interconnection networks, *Discrete Applied Mathematics*, vol. 37/38, pp. 553–562, 1992.

- [1044] W. ZHANG, S. WANG and X. ZHANG: Improving embedding efficiency of covering codes for applications in steganography, *IEEE Communications Letters*, vol. 11, pp. 680–682, 2007.
- [1045] W. ZHANG, X. ZHANG and S. WANG: Maximizing steganographic embedding efficiency by combining Hamming codes and wet paper codes, *Lecture Notes in Computer Science*, No. 5284, pp. 60–71, Springer-Verlag, 2008.
- [1046] X. ZHANG, H. ZHANG and G. GE: Optimal constant weight covering codes and nonuniform group divisible 3-designs with block size four, *Designs, Codes and Cryptography*, vol. 62, pp. 143–160, 2012.
- [1047] Z. ZHANG: Linear inequalities for covering codes: Part I—pair covering inequalities, *IEEE Trans. Inform. Th.*, vol. 37, pp. 573–582, 1991.
- [1048] Z. ZHANG and C. LO: Linear inequalities for covering codes: Part II—triple covering inequalities, *IEEE Trans. Inform. Th.*, vol. 38, pp. 1648–1662, 1992.
- [1049] Z. ZHANG and C. LO: Lower bounds on $t[n, k]$ from linear inequalities, *IEEE Trans. Inform. Th.*, vol. 38, pp. 194–197, 1992.
- [1050] V. A. ZINOVIEV: Codes for correlation multi-address selection, Ph. D. Thesis, Moscow Institute of Physics and Technology, USSR, 200 pp., 1970 (in Russian).
- [1051] V. A. ZINOVIEV: On generalized concatenated codes, *Colloquia Mathematica Societatis János Bolyai*, vol. 16, pp. 587–592, 1975.
- [1052] V. A. ZINOVIEV: Generalized cascade codes, *Problemy Peredachi Informatsii*, vol. 12, No. 1, pp. 5–15, 1976. Translated in: *Problems of Inform. Transm.*, vol. 12, No. 1, pp. 2–9.
- [1053] V. A. ZINOVIEV: Combinatorial methods of construction and analysis of nonlinear error-correcting codes, Doctor of Sciences Diss., Computer Centre of Russian Academy of Sciences, Moscow, 300 pp., 1988 (in Russian).
- [1054] V. A. ZINOVIEV and G. L. KATSMAN: Universal codes families, *Problemy Peredachi Informatsii*, vol. 29, No. 2, pp. 3–8, 1993. Translated in: *Problems of Inform. Transm.*, vol. 29, No. 2, pp. 95–100.
- [1055] V. A. ZINOVIEV and V. K. LEONTIEV: On perfect codes, *Problemy Peredachi Informatsii*, vol. 8, No. 1, pp. 26–35, 1972. Translated in: *Problems of Inform. Transm.*, vol. 8, No. 1, pp. 17–24.
- [1056] V. A. ZINOVIEV and V. K. LEONTIEV: The nonexistence of perfect codes over Galois fields, *Problemy Upravleniya i Teorii Informatsii*, vol. 2, No. 2, pp. 123–132, 1973. Translated in: *Problems of Control Information Th.*, vol. 2, No. 2, pp. 16–24.
- [1057] V. A. ZINOVIEV and S. LITSYN: Dual distance of BCH codes, *Problemy Peredachi Informatsii*, vol. 22, No. 4, pp. 29–34, 1986. Translated in: *Problems of Inform. Transm.*, vol. 22, No. 4, pp. 272–277.
- [1058] V. A. ZINOVIEV and J. RIFÁ: On new completely regular q -ary codes, *Problemy Peredachi Informatsii*, vol. 43, No. 2, pp. 34–51, 2007. Translated in: *Problems of Inform. Transm.*, vol. 43, No. 2, pp. 97–112.