

List of Publications: Professor Cunsheng Ding

Research Monographs

1. C. Ding, **Codes from Difference Sets**, World Scientific, 2015. [Cover page here] [Corrections are here]
2. T. Cusick, C. Ding, and A. Renvall, **Stream Ciphers and Number Theory**, North-Holland Mathematical Library 55, Elsevier/North-Holland, 1998. Revised edition, The North-Holland Mathematical Library, Vol. 66, 2004. [Cover page here]
3. C. Ding, D. Pei and A. Salomaa, **Chinese Remainder Theorem: Applications in Computing, Coding and Cryptography**, Singapore: World Scientific, 1996. [Cover page here]
4. C. Ding and G. Xiao, **Stream Ciphers and Their Applications** (In Chinese), Beijing: National Defense Press, 1994. [Cover page here]
5. C. Ding, G. Xiao, and W. Shan, **The Stability Theory of Stream Ciphers**, LNCS 561, Heidelberg: Springer-Verlag, 1991. [Cover page here]

Edited Books

1. C. P. Rangan and C. Ding, *Progress in Cryptography – INDOCRYPT 2001*, Lecture Notes in Computer Science 2247, Springer Verlag, 2001.
2. C. Ding, T. Helleseth, and H. Niederreiter, *Sequences and Their Applications - Proceedings of SETA'98*, London: Springer-Verlag, 1999.

Edited Journal Special Issues

1. Special Issue on Special Functions and Codes, *Cryptography and Communications*, Vol. 9, No. 1, Jan. 2017, Springer, Heidelberg, Co-edited with Z. Zhou.
2. Special Issue on Cryptology, *Internal Journal on Foundations of Computer Science*, Vol. 22, No. 6, September 2011, World Scientific, Singapore, Co-edited with Q. Wang.
3. Special Issue on Coding Theory and Cryptography, *Designs, Codes and Cryptography*, Vol. 48, No. 2, Springer-Verlag, 2008, co-edited with T. Helleseth and O. Ytrehus.
4. Special Issue in Coding Theory and Cryptography, *Journal of Complexity*, Vol. 20, Nos. 2–3, Academic Press, 2004, Co-edited with C. Xing.
5. Special Issue on Cryptography, *Theoretical Computer Science*, Vol. 226, No. 1, Elsevier, September 1999. Guest Editor.
6. Special Issue on Cryptology, *Information and Computation*, Vol. 151, No. 1, June 1999, Academic Press, USA. Guest Editor.

Refereed Journal Papers

1. C. Ding, Infinite families of 3-designs from a type of five-weight code, **Designs, Codes and Cryptography**, to appear. PDF file
2. C. Ding, A sequence construction of cyclic codes over $\text{GF}(q)$, **Cryptography and Communications**, to appear. PDF file
3. C. Ding, An infinite family of Steiner systems $S(2, 4, 2^m)$ from cyclic codes, **J. Combinatorial Designs**, to appear. PDF file
4. S. Li, C. Li, C. Ding and H. Liu, Two families of LCD BCH codes, **IEEE Trans. Information Theory**, to appear. PDF file
5. C. Ding and C. Li, Infinite families of 2-designs and 3-designs from linear codes, **Discrete Math.**, Vol. 340, No. 10, pp. 2415-2431, Oct. 2017. PDF file
6. Z. Heng, C. Ding and Q. Yue, New constructions of asymptotically optimal codebooks with multiplicative characters, **IEEE Trans. Information Theory**, to appear. PDF file
7. H. Liu, C. Ding, and C. Li, Dimensions of three types of BCH codes over $\text{GF}(q)$, **Discrete Math.**, Vol. 340, No. 8, pp. 1910-1927, August 2017. PDF file
8. D. Wu, P. Yuan, C. Ding, and Y. Ma, Permutation trinomials over \mathbb{F}_{2^m} , **Finite Fields and Their Applications**, Vol. 46, pp. 38-56, July 2017. PDF file
9. C. Li, C. Ding, and S. Li, LCD cyclic codes over finite fields, **IEEE Trans. Information Theory**, Vol. 63, No. 7, pp. 4344-4356, July 2017. PDF file
10. C. Ding, C. Fan and Z. Zhou, The dimension and minimum distance of two classes of primitive BCH codes, **Finite Fields and Their Applications**, Vol. 45, pp. 237-263, 2017. PDF file
11. C. Ding, A construction of binary linear codes from Boolean functions, **Discrete Mathematics**, Vol. 339, No. 9, pp. 2288-2303, 2016. PDF file
12. M. Xiong, N. Li, Z. Zhou and C. Ding, Weight distribution of cyclic codes with arbitrary number of generalized Niho type zeroes, **Designs, Codes and Cryptography**, Vol. 78, No. 3, pp. 713-730, March 2016. PDF file
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