

References

- [Adl] L. Adleman: On breaking the iterated Merkle-Hellman public key cryptosystem. Proceedings 15th ACM Symposium on the Theory of Computing, 1983, pp. 402–412
- [Ang] D. Angluin: Lecture Notes on the Complexity of Some Problems in Number Theory. Yale University, Computer Science Department, Technical Report 243, 1982
- [BeP] H. Beker and F. Piper: Cipher systems. Northwood Books, London 1982
- [BeG] M. Bellare and S. Goldwasser: New paradigms for digital signatures and message authentication based on non-interactive zero knowledge proofs. CRYPTO-89 Abstracts, University of California, Santa Barbara 1989, pp. 189–204
- [Ben] J.D.C. Benaloh: Verifiable secret-ballot elections. Yale University, Computer Science Department, Technical Report 561, 1987
- [BenT] J.D.C. Benaloh and D. Tuinstra: Receipt-free secret-ballot elections. Proceedings STOC-94, (1994) 544–553
- [Bl1] M. Blum: Coin flipping by telephone. A protocol for solving impossible problems. SIGACT News, 1981, pp. 23–27
- [Bl2] M. Blum: How to prove a theorem so no one else can claim it. Proceedings International Congress of Mathematicians, 1987, pp. 1444–1451
- [Bo] B. den Boer: More efficient match-making and satisfiability; the five card trick. Proceedings EUROCRYPT-89, Lecture Notes in Computer Science, vol. 434. Springer, Berlin 1990, pp. 208–217
- [BC] R.C. Bose and S. Chowla: Theorems in the additive theory of numbers. Comment. Math. Helvet. 37 (1962) 141–147
- [Br1] G. Brassard: A note on the complexity of cryptography. IEEE Transactions on Information Theory IT-25 (1979) 232–233
- [Br2] G. Brassard: Modern cryptology. Lecture Notes in Computer Science, vol. 325. Springer, Berlin 1988
- [BCC] G. Brassard, D. Chaum and C. Crépeau: An introduction to minimum disclosure. Amsterdam CWI Quarterly 1 (1988) 3–17
- [BCR] G. Brassard, C. Crépeau and J.-M. Robert: All-or-nothing disclosure of secrets. Lecture Notes in Computer Science, vol. 263. Springer, Berlin 1987, pp. 234–238
- [BuP] H. Burk and A. Pfitzmann: Digital payment systems enabling security and unobservability. Computers and Security 9 (1989) 399–416
- [Cho] B.-Z. Chor: Two issues in public key cryptography. MIT Press, Cambridge, Mass. 1986
- [Cop] D. Coppersmith: Fast evaluation of logarithms in fields of characteristic two. IEEE Transactions on Information Theory IT-30 (1984) 587–594
- [CrK] C. Crépeau and J. Kilian: Discreet solitary games. Proceedings CRYPTO-93, Lecture Notes in Computer Science, vol. 773. Springer, Berlin 1994, pp. 319–330
- [Dam] I.B. Damgaard: On the existence of bit commitment schemes and zero-knowledge proofs. CRYPTO-89 Abstracts, University of California, Santa Barbara 1989, pp. 15–23
- [Del] J.M. Delaurentis: A further weakness in the common modulus protocol for the RSA cryptosystem. Cryptologia 8 (1984) 253–259
- [De] D.E. Denning: Cryptography and data security. Addison-Wesley, Reading, Mass. 1982
- [DMP] A. De Santis, S. Micali and G. Persiano: Non-interactive zero-knowledge proof systems. Lecture Notes in Computer Science, vol. 293. Springer, Berlin 1987, pp. 52–72
- [DGB] Y. Desmedt, C. Goutier and S. Bengio: Special uses and abuses of the Fiat-Shamir passport protocol. Lecture Notes in Computer Science, vol. 293. Springer, Berlin 1987, pp. 21–39
- [DH] W. Diffie and M. Hellman: New directions in cryptography. IEEE Transactions on Information Theory IT-22 (1976) 644–654
- [EIG] T. El Gamal: A public key cryptosystem and signature scheme based on discrete logarithms. IEEE Transactions on Information Theory IT-31 (1985) 469–473
- [EvY] S. Even and Y. Yacobi: Cryptosystems which are *NP*-hard to break. Technion, Computer Science Department, Technical Report 1979

- [FFS] U. Feige, A. Fiat and A. Shamir: Zero knowledge proofs of identity. *Journal of Cryptology* 1 (1988) 77–94
- [FiS] A. Fiat and A. Shamir: How to prove yourself: practical solutions to identification and signature problems. *Lecture Notes in Computer Science*, vol. 263. Springer, Berlin 1987, pp. 186–194
- [Fl] D. Floyd: Annotated bibliography in conventional and public key cryptography. *Cryptologia* 7 (1983) 12–24
- [Ga] H.F. Gaines. *Cryptoanalysis*. Dover Publications, New York 1939
- [GMW] O. Goldreich, S. Micali and A. Wigderson: How to prove all *NP*-statements in zero-knowledge, and a methodology of cryptographic protocol design. *Lecture Notes in Computer Science*, vol. 263. Springer, Berlin 1987, pp. 171–185
- [GM] S. Goldwasser and S. Micali; Probabilistic encryption. *Journal of Computer and Systems Sciences* 28 (1984) 270–299
- [GMR] S. Goldwasser, S. Micali and C. Rackoff: The knowledge complexity of interactive proof systems. *Proceedings 17th ACM Symposium on the Theory of Computing*, 1985, pp. 291–304
- [GMT] S. Goldwasser, S. Micali and P. Tong: Why and how to establish a private code on a public network. *Proceedings 23rd FOCS Symposium*, 1982, pp. 134–144
- [Hil] L.S. Hill: Cryptography in an algebraic alphabet. *American Mathematical Monthly* 36 (1929) 306–312
- [Ka] D. Kahn: *The codebreakers: the story of secret writing*. Macmillan, New York 1967
- [Kar1] J. Kari: A cryptosystem based on propositional logic. *Lecture Notes in Computer Science*, vol. 381. Springer, Berlin 1989, pp. 210–219
- [Kar2] J. Kari: A cryptanalytic observation concerning systems based on language theory. *Discrete Applied Mathematics* 21 (1988) 265–268
- [Kar3] J. Kari: Observations concerning a public-key cryptosystem based on iterated morphisms. *Theoretical Computer Science* 66 (1989) 45–53
- [Ko] N. Koblitz: *A course in number theory and cryptography*. Springer, Berlin 1987
- [Kon] A. Konheim: *Cryptography: a primer*. Wiley and Sons, New York 1982
- [Kra] E. Kranakis: *Primality and cryptography*. Wiley-Teubner, Chichester New York Stuttgart 1986
- [McE] R.J. McEliece: A public-key cryptosystem based on algebraic coding theory. *Deep Space Network Progress Report*. Jet Propulsion Labs, Pasadena 42–44 (1978) 114–116
- [MeH] R. Merkle and M. Hellman: Hiding information and signatures in trapdoor knapsacks. *IEEE Transactions on Information Theory* IT-24 (1978) 525–530
- [Mig] M. Mignotte: How to share a secret. *Lecture Notes in Computer Science*, vol. 149. Springer, Berlin 1983, pp. 371–375
- [Mil] G.L. Miller: Riemann's hypothesis and tests for primality. *Journal of Computer and System Sciences* 13 (1976) 300–317
- [Nie] V. Niemi: Hiding regular languages: a public-key cryptosystem. Manuscript 1989
- [NieR] V. Niemi and A. Renvall: Efficient voting with no selling of votes. Manuscript 1995, submitted for publication
- [NieR2] V. Niemi and A. Renvall: Secure multiparty computations without computers. *Theoretical Computer Science*, to appear
- [NuS] H. Nurmi and A. Salomaa: On the cryptography of secret ballot. *Behavioral Science* 36 (1991) 34–40
- [NuSS] H. Nurmi, A. Salomaa and L. Santeau: Secret-ballot elections in computer networks. *Computers and Security* 10 (1991) 553–560
- [OdI] A.M. Odlyzko: Discrete logarithms in finite fields and their cryptographic significance. *Lecture Notes in Computer Science*, vol. 209. Springer, Berlin 1985, pp. 224–314
- [PoH] S.C. Pohlig and M. Hellman: An improved algorithm for computing logarithms over $GF(p)$ and its cryptographic significance. *IEEE Transactions on Information Theory* IT-24 (1978) 106–110

- [PIK] C. Park, K. Itoh and K. Kurosawa: Efficient anonymous channel and all/nothing election scheme. Proceedings EUROCRYPT-93, Lecture Notes in Computer Science, vol. 765. Springer, Berlin 1994. pp. 248–259
- [Rab1] M.O. Rabin: Digitalized signatures and public key functions as intractable as factorization. MIT, Laboratory for Computer Science, Technical Report 212, 1979
- [Rab2] M.O. Rabin: How to exchange secrets by oblivious transfer. Aiken Computation Laboratory, Harvard University, Technical Report TR-81, 1981
- [Ren] Tao Renji: Some results on the structure of feedforward inverses. Scientia Sinica, Ser. A 27 (1984) 157–162
- [Renv] A. Renvall: Cryptographic protocols and techniques for communication. Dissertation, Univ. of Turku 1994
- [RSA] M. Rivest, A. Shamir and L. Adleman: A method for obtaining digital signatures and public-key cryptosystems. Commun. ACM 21 (1978) 120–126
- [RS] G. Rozenberg and A. Salomaa: The mathematical theory of L systems. Academic Press, New York 1980
- [Sa1] A. Salomaa: Computation and automata. Cambridge University Press, Cambridge 1985. Available also in French and Japanese
- [Sa2] A. Salomaa: A public-key cryptosystem based on language theory. Computers and Security 7 (1988) 83–87
- [Sa3] A. Salomaa: A deterministic algorithm for modular knapsack problems. Theoretical Computer Science 88 (1991) 127–138
- [Sa4] A. Salomaa: Decision problems arising from knapsack transformations. Acta Cybernetica 9 (1990) 419–440
- [SaY] A. Salomaa and S. Yu: On a public-key cryptosystem based on iterated morphisms and substitutions. Theoretical Computer Science 48 (1986) 283–296
- [SchA] C.P. Schnorr and W. Alexi: RSA-bits are $0.5 + \varepsilon$ secure. Lecture Notes in Computer Science, vol. 209. Springer, Berlin 1985, pp. 113–126
- [Schn] B. Schneier: Applied Cryptography. John Wiley, New York 1993, 2nd ed. 1995
- [SP] J. Seberry and J. Pieprzyk: Cryptography: an introduction to computer security. Prentice Hall, New York 1989
- [Sh1] A. Shamir: A fast signature scheme. MIT, Laboratory for Computer Science, Technical Report 1978
- [Sh2] A. Shamir: A polynomial time algorithm for breaking the basic Merkle-Hellman cryptosystem. Proceedings 23rd FOCS Symposium, 1982, pp. 145–152
- [Sh3] A. Shamir: Embedding cryptographic trapdoors in arbitrary knapsack systems. MIT, Laboratory for Computer Science, Technical Report 230, 1982
- [Sh4] A. Shamir: Identity based cryptosystems and signature schemes. Lecture Notes in Computer Science, vol. 196. Springer, Berlin 1985, pp. 47–53
- [Sh5] A. Shamir: An efficient identification scheme based on permuted kernels. Weizmann Institute, Department of Applied Mathematics, Technical Report 1989
- [ShRA] A. Shamir, R. Rivest and L. Adleman: Mental poker. In D.A. Klarner (ed.), The mathematical gardener. Wadsworth International, Belmont 1981, pp. 37–43
- [Shan] C.E. Shannon: Communication theory of secrecy systems. Bell System Technical Journal 28 (1949) 656–715
- [SiS] R. Siromoney and G. Siromoney: A public key cryptosystem that defies cryptanalysis. EATCS Bulletin 28 (1986) 37–43
- [Til] H.C.A. Van Tilborg: An introduction to cryptology. Kluwer Academic Publishers, Boston 1988
- [WaM] N.R. Wagner and M.R. Magyarik: A public key cryptosystem based on the word problem. Lecture Notes in Computer Science, vol. 196. Springer, Berlin 1985, pp. 19–37
- [Wel] D. Welsh: Codes and cryptography. Oxford University Press, Oxford 1988
- [Wie] M.J. Wiener: Cryptanalysis of short RSA secret exponents. Proceedings EUROCRYPT-89. Lecture Notes in Computer Science, vol. 434. Springer, Berlin 1990, p. 372. Full paper: IEEE Transactions on Information Theory IT-36 (1990) 553–558

- [Wil] H.C. Williams: Some public-key crypto-functions as intractable as factorization. *Cryptologia* 9 (1985) 223-237
- [Yao] A.C. Yao: Protocols for secure computations. *Proceedings 23rd FOCS Symposium*, 1982, pp. 160-164
- [Zim] H.S. Zim: Codes and secret writing. Scholastic Book Services, New York 1948