

ВІВЛІОГРАФІА

- Adams, C. & Tavares, S. (1990). “The Structured Design of Cryptographically Good S-Boxes”, Journal of Cryptology 3(1), pp. 27–41.
- Adleman, L., “A subexponential algorithm for the discrete logarithm problem with applications to cryptography”, Proceedings 20th IEEE Symposium on Foundations of Computer Science, pp. 55-60, October 1979.
- Aiello, W. & Venkatesan, R. (1996). “Benes: A Non-Reversible Alternative to Feistel”, EUROCRYPT 96, Vol. LNCS 1070 of Advances in Cryptology, Springer-Verlag, Espoo, Finland, May 31 - June 4, pp. 307–320.
- Andelman, D. & Reeds, J. (1982). “On the Cryptanalysis, of Rotor Machines and Substitution-Permutation Networks”, IEEE Trans. Inf. Theory IT 28(4), pp. 578–584.
- Anderson, R. (1995). “The Classification of Hash Functions”, Cryptography and coding IV, Springer-Verlag, pp. 83–93.
- Anderson, R. (1995). “Searching for the Optimum Correlation Attack”, K.U. Leuven Workshop on Cryptographic Algorithms, Springer-Verlag.
- Aronsson, H. (1995). “Zero Knowledge Protocols and Small Systems”, <http://www.niksula.cs.hut.fi/haa/study/zeroknowledge.html>.
- Bauer, F. (1997). Decrypted Secrets: Methods and Maxims of Cryptology, Springer-Verlag.
- Beker, H. & Piper, F. (1982). Cipher Systems: The Protection of Communications, Northwood.
- Bell, D. & LaPadula, E. (1974). “Secure Computer Systems: Mathematical Foundations and Model”, MITRE corp.
- Benaloh, J. (1987). “Secret Sharing Homomorphisms: Keeping Shares of a Secret”, CRYPTO 86, Vol. LNCS 263 of Advances in Cryptology, Springer-Verlag, pp. 213–222.
- Berlekamp, E. (1984). Algebraic Coding Theory, Aegean Park Press.
- Bertsekas, D. & Tsitsiklis, J. (2002). Introduction to Probability, Athena Scientific.

- Beth, T. & Piper, F. (1984). "The Stop-and-Go Generator", EUROCRYPT 84, Vol. LNCS 209, Springer-Verlag, Paris, France, April 9-11, pp. 88–92.
- Biham, E. (1993). "On Modes of Operation", Fast Software Encryption, Vol. LNCS 809, Springer-Verlag, Cambridge, U.K., December 9-11.
- Biham, E. (1994). "Cryptanalysis of Multiple Modes of Operation", ASIACRYPT 94, Vol. LNCS 917, Springer-Verlag, Wollongong, Australia, November 28 – December 1.
- Biham, E. (1995) "On Matsui's Linear Cryptanalysis", Proceedings, EUROCRYPT 94, pp. 398-412.
- Biham, E. (1996). "Cryptanalysis of Triple-Modes of Operation", Technical Report CS0885, Technion Israel Institute of Technology.
- Biham, E. & Shamir, A. (1991). "Differential Cryptanalysis of DES-like Cryptosystems", CRYPTO 90, Vol. LNCS 537 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 11-15, pp. 2–21.
- Biham, E. & Shamir, A. (1992). "Differential Cryptanalysis of Snelfru, Khafre, REDOC-II, LOKI and LUCIFER", CRYPTO 91, Vol. LNCS 576 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 11-15, pp. 156–171.
- Biham, E. & Shamir, A. (1993). Differential Cryptanalysis of the Data Encryption Standard, Springer-Verlag.
- Biham, E. & Shamir, A. (1993). "Differential Cryptanalysis of the Full 16-round DES", CRYPTO 92, Vol. LNCS 740 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 16-20, pp. 487–511.
- Biham, E. & Shamir, A. (1997). "Differential Fault Analysis of Secret Key Cryptosystems", CRYPTO 97, Vol. LNCS 1294 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 17-21, pp. 513–525.
- Blakeley, G. (1979). "Safeguarding Cryptographic Keys", Proc. of the National Computer Conference, American Federation of Information Processing Societies, pp. 242–268.
- Blum, M. & Micali S. (1984). "How to Generate Cryptographically Strong Sequences of Pseudo-Random Bits", SIAM J. on Computing 13, pp. 850–64.
- Boneh, D., Demilio, R., Lipton, R. (1997). "On the Importance of Checking Cryptographic Protocols for Faults", EUROCRYPT 97, Vol. LNCS 1233 of Advances in Cryptology, Springer-Verlag, Konstanz, Germany, May 11-15, pp. 37–51.
- Brassard, G. (1979). "A Note on the Complexity of Cryptography", IEEE Trans. on Information Theory IT-25(2), pp. 232–33.
- Brickell, E. & Stinson, D. (1990). "The Detection of Cheaters in Threshold Schemes", CRYPTO 88, Vol. LNCS 403 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 21-25, pp. 564–577.

- Brickell E., Simmons, G. (1983), "A Status Report on Knapsack Based Public Key Cryptosystems", Sandia Report, SAND 83-0042, Sandia National Laboratories, February.
- Brown, L., Pieprzyk, J., Seberry, J. (1990). "LOKI: A Cryptographic Primitive for Authentication and Secrecy Applications", AUSCRYPT 90, Advances in Cryptology, Springer-Verlag, pp. 229–236.
- Campbell, K. & Wiener, M. (1993). "DES is not a Group", CRYPTO 92, Vol. LNCS 740 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 16-20, pp. 512–520.
- Carlet, C. (1993). "Partially-Bent Functions", CRYPTO 92, Vol. LNCS 740 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 16-20, pp. 280–91.
- Chatterjee S. & Price, B. (1977). Regression Analysis by Example, Wiley.
- Chaum, D. & Evertse, J. (1986). "Cryptanalysis of DES with a Reduced Number of Rounds; Sequences of Linear Factors in Block Ciphers", CRYPTO 85, Vol. LNCS 218 of Advances in Cryptology, Santa Barbara, California, USA, August 18-22, pp. 192–211.
- Coppersmith, D. (1994). "The Data Encryption Standard and its Strength Against Attacks", IBM Journal of Research and Development 38(3): 243–250.
- Coppersmith, D. (1996). "Luby-Rackoff: Four Rounds is not Enough", IBM Research Report, RC 20674.
- Cormen, T., Leiserson, C., Rivest, R., Stein, C. (2001). Introduction to algorithms, MIT Press, 2nd Ed.
- Cusick, T. & Wood, M. (1991). "The REDOC II Cryptosystem", CRYPTO 90, Vol. LNCS 537 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 11-15, pp. 545–563.
- Dai, Z & Yang, J. (1991). "Linear Complexity of Periodically Repeated Random Sequences", EUROCRYPT 91, Vol. LNCS 547 of Advances in Cryptology, Springer-Verlag, Brighton, UK, April 8-11, pp. 168–175.
- Damgard, I., "A Design Principle for Hash Functions", Proceedings CRYPTO 89, 1989 New York, Springer-Verlag.
- Damgard., I. & Knudsen, L. (1994). "The Breaking of the AR Hash Function", EURO-CRYPT 93, Vol. LNCS 765 of Advances in Cryptology, Springer-Verlag, Lofthus, Norway, May 23-27, pp. 286–292.
- Damgard., I. & Knudsen, L. (1996). "Multiple Encryption with Minimum Key", Vol. LNCS 1029, Springer-Verlag, pp. 156–164.
- Davies, D. & Price, W. (1984). Security for Computer Networks, Wiley.
- Davis, D. & Swick, R. (1990). "Network Security via Private-Key Certificates", MIT Project Athena.

- Delfs, H. & Knebl, H. (2002). *Introduction to cryptography*. Springer, Berlin Heidelberg New York.
- Denning, D., Sacco, G. (1981). "Timestamps in key distribution protocols", Comm. ACM, 24, No.8, 533-536, August.
- Desmedt, Y. (1991). "The 'A' Cipher Does Not Necessarily Strengthen Security", Cryptologia 15(3): 203–6.
- Desmedt, Y. & Frankel, Y. (1990). "Threshold Cryptosystems", CRYPTO 89, Vol. LNCS 435 of Advances in Cryptography, Springer-Verlag, Santa Barbara, California, USA, August 20-24, pp. 307–315. Desmedt, Y. & Frankel, Y. (1992). "Shared Generation of Authentication and Signatures", CRYPTO 91, Vol. LNCS 576 of Advances in Cryptography, Springer-Verlag, Santa Barbara, California, USA, August 11-15, pp. 457–469.
- Diffie, W. & Hellman, M. (1976). "New Directions in Cryptography", IEEE Trans. Inf. theory IT-22(6), pp. 644–654.
- Diffie, W., Hellman, M. (1976), "Multiuser Cryptographic Techniques", IEEE Trans. Info. Theory, November.
- Diffie, W., Van Oorschot, Wiener, M. (1992). "Authentication and Authenticated Key Exchanges", Designs, Codes and Cryptography 2, pp. 107–125.
- Eastlake, D. & Jones, P. (2001). US Secure Hash Algorithm 1 (SHA1). RFC3174.
- Even, S. & Goldreich, O. (1985). "On the Power of Cascaded Ciphers", ACM Trans. on Computer Systems 3(2), pp. 108–116.
- Even, S., Goldreich, O., Lempel, "A randomized Protocol for signing contracts", Comm. ACM, v28 n6, Jun 1985, pp.637-647.
- Feige, U., Fiat, A., Shamir, A. (1987). "Zero-Knowledge Proofs of Identity", Proc. of the 19th ACM Symposium on Theory of Computing, pp. 210–217.
- Feistel, H. (1974). "Block Cipher Cryptographic System", U.S. Patent #3,798,359.
- Feistel, H., Notz, W., Smith, J. (1975). "Some Cryptographic Techniques for Machine-to-Machine Data Communications", Proc. of the IEEE 63(11), pp. 1545–1554.
- Freirer, A., Carlton P., Kocher, P. (1996). "The SSL Protocol Version 3.0", Internet Draft.
- Garret, P. (2001), *Making, Breaking Codes*, Prentice-Hall.
- Garey., M. & Johnson, D. (1979). *Computers and Intractability: A Guide to the Theory of NP-Completeness*, Freeman.
- Garon, G. & Outerbridge, R. (1991). "DES Watch: An Examination of the Sufficiency of the Data Encryption Standard for Financial Institution Information Security in the 1990's", Cryptologia 15(3), pp. 177–93.
- Geffe, P. (1973). "How to Protect Data with Ciphers that are Really Hard to Break", Electronics 46(1), pp. 99–101.

- Goldreich, O., Goldwasser, S., Micali, S. (1984). "How to Construct Random Functions", Proceedings of the 25th Annual Symposium on Foundations of Computer Science.
- Goldwasser, S., Micali, S., Rivest, R. (1988). "A Digital Signature Scheme Secure Against Adaptive Chosen Message Attacks", SIAM J. in Computing 17, pp. 281–308.
- Golomb, S. (1967). Shift register sequences, Holden-Day.
- Good, J. (1957). "On the Serial Test for Random Sequences", Ann. Math. Statistics 28, pp. 262–264.
- Heys, H. & Tavares, S. (1996). "Substitution-Permutation Networks Resistant to Differential and Linear Cryptanalysis", Journal of Cryptology 9(1), pp. 1–19.
- Ingemasson, I. & Simmons, G. (1991). "A Protocol to Set Up Shared Secret Schemes without the Assistance of a Mutually Trusted Party", EUROCRYPT 90, Vol. LNCS 473 of Advances in Cryptology, Springer-Verlag, Aarhus, Denmark, May 21-24, pp. 266–282.
- ISO/IEC 9796 (1991). "Information Technology- Security Techniques- Digital Signature Scheme Giving Message Recovery".
- Jansen, C. & Boekee, D. (1988). "Modes of Blockcipher Algorithms and their Protection Against Active Eavesdropping", EUROCRYPT 87, Vol. LNCS 304 of Advances in Cryptology, Springer-Verlag, pp. 281–286.
- Knudsen, L. (1994a). "Block Ciphers - Analysis, Designs, Applications", PhD thesis, Aarhus University.
- Knudsen, L. (1994b). "Practically Secure Feistel Ciphers", Fast Software Encryption 93, Vol. LNCS 809, Springer-Verlag, Cambridge, U.K., December 9-11, pp. 211–221.
- Knuth, D. (1981). The Art of Computer Programming, Vol. 2, Addison-Wesley.
- Koblitz, N. (1987). A Course in Number Theory and Cryptography, Springer-Verlag.
- Koyama, K. & Terada, R. (1993). "How to Strengthen DES-like Cryptosystems Against Differential Cryptanalysis", IEICE Trans. Fundamentals E76-A(1), pp. 63–69.
- Kullback, Solomon, Statistical methods in cryptanalysis, Aegean Park Press, Laguna Hills, California, 1976.
- Kumar, I. (1997), Cryptology, Laguna Hills, CA: Aegean Park Press.
- Lai, X. (1992). On the Design and Security of Block Ciphers, Vol. 1 of ETH Series in Information Processing, Konstanz: Hartung-Gorre Verlag.
- Lai, X., & Massey, J. (1991). "A proposal for a New Block Encryption Standard", EUROCRYPT 90, Vol. LNCS 473 of Advances in Cryptology, Springer-Verlag, Aarhus, Denmark, May 21-24, pp. 389–404.

- Lai, X., Massey, J., Murphy S. (1991). "Markov Ciphers and Differential Cryptanalysis", EUROCRYPT 91, Vol. LNCS 547 of Advances in Cryptology, Springer-Verlag, Brighton, UK, April 8-11, pp. 17–38.
- Luby, M. & Rackoff, C. (1986). "Pseudo-random Permutation Generators and Cryptographic Composition", Proc. 18th Annual Symposium on Theory of Computing, pp. 356–63.
- Luby, M. & Rackoff, C. (1988). "How to Construct Pseudorandom Permutations from Pseudorandom Functions", SIAM J. Computing 17(2), pp. 373–86.
- Martin, K. (1993). "Untrustworthy Participants in Perfect Secret Sharing Schemes", in M. Ganley (ed.), Cryptography and Coding III, Clarendon Press, pp. 255–264.
- Matsui, M. (1994). "Linear Cryptanalysis Method for DES Cipher", EUROCRYPT 93, Vol. LNCS 765 of Advances in Cryptology, Springer-Verlag, Lofthus, Norway, May 23-27, pp. 386–397.
- Maurer, U. (1993). "A Simplified and Generalized Treatment of Luby-Rackoff Pseudorandom Permutation Generators", EUROCRYPT 92, Vol. LNCS 658 of Advances in Cryptology, Springer-Verlag, Balatonfured, Hungary, May 24–28, pp. 239–255.
- Menezes, A. (1993). Elliptic Curve Public Key Cryptosystems, Kluwer.
- Merkle, R. (1979). "Secrecy, Authentication, and Public Key Systems", PhD thesis, Stanford University.
- Merkle, R. (1990). "A Fast Software One-Way Hash Function", J. of Cryptology 3(1), pp. 43–58.
- Merkle, R. (1989). "One Way Hash Functions and DES", Proceedings CRYPTO 89, New York, Springer-Verlag.
- Meyer, C. & Matyas, M. (1982). Cryptography: A New Dimension In Computer Data Security, Willey.
- Meyer, C. & Schilling, M. (1988). "Secure Program Load with Manipulation Detection Code", SECURICOM 88, pp. 111–130.
- Mund, S., Gollman, D., Beth, T. (1988). "Some Remarks on the Cross Correlation Analysis of Pseudorandom Generators", EUROCRYPT 87, Vol. LNCS 304 of Advances in Cryptology, Springer-Verlag, pp. 25–35.
- Murphy S. & Robshaw, M. (2002). "Essential Algebraic Structure within the AES", CRYPTO 2002, LNCS 2442, Springer-Verlag, pp. 1–16,
- Naor, M., Ostrovsky, R., Venkatesan, R., Yung, M. (1992). "Perfect Zero-Knowledge Arguments for NP Can Be Based on General Complexity Assumptions", <ftp://ftp.icsi.Berkeley.edu/pub/techreports/1992/tr-92-082.ps.Z>.
- National Institute of Standards & Technology (1992). "Proposed Federal Information Processing Standard for Secure Hash Standard (DSS)", Federal Register 57(21): 29–40.

- Needham, R. (1994). "Denial of Service: An Example", Communications of the ACM 37(11), pp. 42–46.
- Needham, R. & Schroeder, M. (1978). "Using encryption for authentication in large networks of computers", Comm. ACM, 21, No.12, 993-999, December.
- O'Connor (1994). "An Analysis of a Class of Algorithms for S-box Construction", J. of Cryptology 7(3), pp. 133–152.
- O'Connor (1994). "On the Distribution of Characteristics in Bijective Mappings", EUROCRYPT 93, Vol. LNCS 765 of Advances in Cryptology, Springer-Verlag, Lofthus, Norway, May 23-27, pp. 360–70.
- Pfleeger, C. (1989). Security in Computing, Prentice Hall.
- Pieprzyk, J. (1991). "How to construct Pseudorandom Permutations, from Single Pseudorandom Functions", EUROCRYPT 90, Vol. LNCS 473 of Advances in Cryptology, Springer-Verlag, Aarhus, Denmark, May 21-24, pp. 140–150.
- Pieprzyk, J. (1996). "Cryptographic Algorithms: Properties, Design and Analysis", Invited lecture PRAGOCRYPT 96.
- Pieprzyk, J., Hardjono, T., Seberry, J. (2001). Fundamentals of computer security, Springer.
- Pohlig S., Hellman, M., "An improved algorithm for computing logarithms over GF(p) and its cryptographic significance", Trans. IEEE on information theory, IT-24 No. 1, pp.106-110, January 1978.
- Preneel, B., Cryptology, Cryptology, lecture notes, May 1998.
- Rabin, M. (1981). How to exchange secrets by oblivious transfer. Technical Report TR-81, Harvard Aiken Computation Laboratory.
- Rivest, R. (1991). "The MD4 Message Digest Algorithm", CRYPTO 90, Vol. LNCS 537 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 11-15, pp. 303–311.
- Rivest, R. (1992). "The MD4 Message Digest Algorithm", RFC1320.
- Rivest, R. (1992). "The MD5 Message Digest Algorithm", RFC1321.
- Rivest, R. (1994). "The RC5 Encryption Algorithm", Fast Software Encryption, Vol. LNCS 1008, Springer, pp. 86–96.
- Rivest, R., Shamir, A., Adleman, M. (1978). "A Method for Obtaining Digital Signatures and Public-Key Cryptosystems", Communications of the ACM 21(2), pp. 120–126.
- Rosen, K. (2000), Elementary number theory and its applications, Addison Wesley Longman, 4th Ed.
- RSA Laboratories (1993). "PKCS #7: Cryptographic Message Syntax Standard", Technical note 003-903022-150-000-000.
- Rueppel, R. (1988). "When Shift Registers Clock Themselves", EUROCRYPT 87, Vol. LNCS 304 of Advances in Cryptology, Springer-Verlag, pp. 53–64.
- Scherk, J. (2000). Algebra, A Computational Introduction, Chapman & Hall/CRC.

- Schneier, B. (1996). *Applied Cryptography*, 2nd edn, Wiley.
- Schneier, B. & Kelsey, J. (1996). "Unbalanced Feistel Networks and Block Cipher Design", *Fast Software Encryption, Third International Workshop*, Springer-Verlag, pp. 121–144.
- Schnorr, C. (1991). "Method for Identifying Subscribers and for Generating and Verifying Electronic Signatures In A Data Exchange System", US PAT No.4,995,082.
- Scott, R. (1985). "Wide Open Encryption Design Offers Flexible Implementations", *Cryptologia* 9(1), pp. 75–90.
- Seberry, J., Zhang, X., Zheng, Y. (1995). "Pitfalls in Designing Substitution Boxes", *CRYPTO 94*, Vol. LNCS 839 of *Advances in Cryptology*, Springer-Verlag, Santa Barbara, California, USA, August 21-25, pp. 383–396.
- Shamir, A. (1979). "How to Share a Secret", *Communications of the ACM* 24(11), pp. 612–613.
- Shamir A., Zippel R. (1980). "On the security of the Merkle-Hellman cryptographic scheme", *IEEE Trans. on Information Theory*, IT-26, pp. 339-340.
- Shamir, A (1982), "A polynomial time algorithm for breaking the Merkle-Hellman cryptosystem", *Proc. 23rd IEEE Symposium on Foundations of Computer Science*, pp. 145-152.
- Shannon, C. (1948). "A Mathematical Theory of Communication", *Bell System Technical Journal*, July, pp.379-423.
- Shannon, C. (1949). "Communication Theory of Secrecy Systems", *Bell System Technical Journal*, 28, pp. 656–715.
- Shimizu, A. & Miyaguchi, S.Z (1988). "Fast Data Encipherment Algorithm, FEAL", *EUROCRYPT 87*, Vol. LNCS 304 of *Advances in Cryptology*, Springer-Verlag, pp. 267–278.
- Silverman, J. (2001), *A friendly introduction to number theory*, Prentice-Hall, 2nd Ed.
- Sinkov, A. (1996), *Elementary cryptanalysis: A mathematical approach*, Math Assn Amer.
- Stallings, W., (2003), *Cryptography and Network Security*, Prentice Hall.
- Stinson, D. (2002), *Cryptography, Theory and Practice*, Chapman & Hall/ CRC.
- Trappe, W. & Washington, L. (2002), *Introduction to cryptography with coding theory*, Prentice-Hall.
- Tsudik, G. (1992). "Message Authentication with One-Way Hash Functions", *Computer Communication Review* 22(5): 29–38.
- van der Lubbe, J., (1998), *Basic Methods of Cryptography*, Cambridge University Press.

- Webster, A. & Tavares, S. (1986). "On the Design of S-Boxes", CRYPTO 85, Vol. LNCS 403 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 21-25, pp. 523–534.
- Yuval, G. (1979). "How to swindle Rabin", Cryptologia, v.3. n.3, pp. 187-190.
- Zheng, Y., Matsumoto, T., Imai, H. (1990). "On the Construction of Block Ciphers Provably Secure and Not Relying on Any Unproved Hypotheses", CRYPTO 89, Vol. LNCS 435 of Advances in Cryptology, Springer-Verlag, Santa Barbara, California, USA, August 20-24, pp. 461–480.
- Γκετζ, Ν. (1999). Το Θεώρημα του Παπαγάλου, ΠΟΛΙΣ.
- Πάγκαλος, Γ. & Μαυρίδης, Ι. (2002). Ασφάλεια Πληροφοριακών Συστημάτων και Δικτύων, Ανικούλα.
- Singh, S. (2001), Κώδικες και Μυστικά, Π. ΤΡΑΥΛΟΣ.