# Bibliography of Papers from Selected Cryptographic Forums

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## A.1 Asiacrypt/Auscrypt Proceedings

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Editors: J. Pieprzyk and R. Safavi-Naini.

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Advances in Cryptology – CRYPTO '85. Springer-Verlag LNCS 218 (1986). Editor: H.C. Williams.

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### A.3 Eurocrypt Proceedings

Cryptography – Proceedings of the Workshop on Cryptography, Burg Feuerstein, Germany, 1982. Springer-Verlag LNCS 149 (1983).

Editor: T. Beth.

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Advances in Cryptology – Proceedings of EUROCRYPT 84, Paris, France.

Springer-Verlag LNCS 209 (1985).

Editors: T. Beth, N. Cot, and I. Ingemarsson.

- G.B. Agnew, Secrecy and privacy in a local area network environment, 349-363.
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Advances in Cryptology – EUROCRYPT '85, Linz, Austria. Springer-Verlag LNCS 219 (1986). Editor: F. Pichler.

- G.B. Agnew, Modeling of encryption techniques for secrecy and privacy in multi-user networks, 221-230.
- J. Bernasconi, C.G. Günther, Analysis of a nonlinear feedforward logic for binary sequence generators, 161–166.
- R.V. Book, F. Otto, The verifiability of two-party protocols, 254–260.
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Program Chair: J.L. Massey.

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- M. Beale, Properties of de Bruijn sequences generated by a cross-join technique.
- A. Beutelspacher, Geometric structures as threshold schemes.
- E.F. Brickell, Cryptanalysis of the Yagisawa public key cryptosystem.
- D.D. Buckley, M. Beale, Public key encryption of stream ciphers.
- H. Cloetens, Y. Desmedt, L. Bierens, J. Vandewalle, R. Govaerts, Additional properties in the S-boxes of the DES.
- G.I. Davida, Y.-S. Yeh, Multilevel cryptosecure relational databases.
- Y. Desmedt, F. Hoornaert, J.-J Quisquater, Several exhaustive key search machines and DES.
- G. Dial, F. Pessoa, Sharma-Mittal entropy and Shannon's random cipher result.
- A. Ecker, Tactical configurations and threshold schemes.
- V. Fåk, Activities of IFIP working group 11:4 on crypto management.
- O. Frank, P. Weidenman, Controlling individual information in statistics by coding.
- A.S. Glass, Could the smart card be dumb?
- D. Gollmann, Linear complexity of sequences with period  $p^n$ .
- C.G. Günther, On some properties of the sum of two pseudorandom generators.
- F.-P. Heider, D. Kraus, M. Welschenbach, Some preliminary remarks on the decimal, shift and addalgorithm (DSA).
- T. Herlestam, On linear shift registers with permuted feedback.
- N.S. James, R. Lidl, H. Niederreiter, A cryptanalytic attack on the CADE cryptosystem.
- C.J.A. Jansen, Protection against active eavesdropping.
- R.A. Kemmerer, Analyzing encryption protocols using formal verification techniques.
- D.S.P. Khoo, G.J. Bird, J. Seberry, Encryption exponent 3 and the security of RSA.
- J.H. Moore, Cycle structure of the weak and semi-weak DES keys.

- W.B. Müller, R. Nöbauer, On commutative semigroups of polynomials and their applications in cryptography.
- Q.A. Nguyen, Elementary proof of Rueppel's linear complexity conjecture.
- R. Peralta, A simple and fast probabilistic algorithm for computing square roots modulo a prime number.
- F. Pichler, On the Walsh-Fourier analysis of correlation-immune switching functions.
- D. Pinkas, B. Transac, The need for a standardized compression algorithm for digital signatures.
- W.L. Price, The NPL intelligent token and its application.
- R.A. Rueppel, O.J. Staffelbach, Products of linear recurring sequence with maximum complexity.
- P. Schöbi, Perfect authentication systems for data sources with arbitrary statistics.
- T. Siegenthaler, Correlation-immune polynomials over finite fields.
- B. Smeets, Some properties of sequences generated by a windmill machine.
- M.Z. Wang, J.L. Massey, The characterization of all binary sequences with perfect linear complexity profiles.

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Editors: D. Chaum and W.L. Price.

- G.B. Agnew, Random sources for cryptographic systems, 77-81.
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Advances in Cryptology – EUROCRYPT '89, Houthalen, Belgium. Springer-Verlag LNCS 434 (1990). Editors: J.-J. Quisquater and J. Vandewalle.

- G.B. Agnew, R.C. Mullin, S.A. Vanstone, A fast elliptic curve cryptosystem, 706-708.
- M. Antoine, J.-F Brakeland, M. Eloy, Y. Poullet, Legal requirements facing new signature technologies, 273–287.
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- F. Bauspieß, H.-J. Knobloch, P. Wichmann, Inverting the pseudo exponentiation, 344–351.
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- A. Klapper, M. Goresky, Large period nearly de Bruijn FCSR sequences, 263-273.
- K. Koyama, Fast RSA-type schemes based on singular cubic curves  $y^2 + axy \equiv x^3 \pmod{n}$ , 329–340.
- H. Krawczyk, New hash functions for message authentication, 301–310.
- K. Kurosawa, S. Obana, Combinatorial bounds for authentication codes with arbitration, 289-300.
- R. Lercier, F. Morain, Counting the number of points on elliptic curves over finite fields: strategies and performances, 79–94.
- C.H. Lim, P.J. Lee, Server (prover/signer)-aided verification of identity proofs and signatures, 64–78.
- P.L. Montgomery, A block Lanczos algorithm for finding dependencies over GF(2), 106–120.
- D. Naccache, D. M'raïhi, W. Wolfowicz, A. di Porto, Are crypto-accelerators really inevitable? 20 bit zero-knowledge in less than a second on simple 8-bit microcontrollers, 404–409.
- M. Näslund, Universal hash functions & hard core bits, 356–366.
- L. O'Connor, Convergence in differential distributions, 13–23.
- B. Pfitzmann, M. Schunter, M. Waidner, How to break another "provably secure" payment system, 121–132.
- D. Pointcheval, A new identification scheme based on the perceptrons problem, 319–328.
- K. Sako, J. Kilian, Receipt-free mix-type voting scheme A practical solution to the implementation of a voting booth, 393–403.
- K. Sakurai, H. Shizuya, Relationships among the computational powers of breaking discrete log cryptosystems, 341–355.
- C.P. Schnorr, H.H. Hörner, Attacking the Chor-Rivest cryptosystem by improved lattice reduction, 1–12.
- M. Stadler, J.-M. Piveteau, J. Camenisch, Fair blind signatures, 209–219.
- C.-H. Wang, T. Hwang, J.-J. Tsai, On the Matsumoto and Imai's human identification scheme, 382–392.
- D. Weber, An implementation of the general number field sieve to compute discrete logarithms mod p, 95–105.
- X.-M. Zhang, Y. Zheng, On nonlinear resilient functions, 274–288.

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- W. Aiello, R. Venkatesan, Foiling birthday attacks in length-doubling transformations, 307–320.
- D. Beaver, Equivocable oblivious transfer, 119-130.
- M. Bellare, P. Rogaway, The exact security of digital signatures how to sign with RSA and Rabin, 399–416.
- S. Blackburn, M. Burmester, Y. Desmedt, P. Wild, Efficient multiplicative sharing schemes, 107–118.
- D. Bleichenbacher, Generating ElGamal signatures without knowing the secret key, 10–18.
- J. Boyar, R. Peralta, Short discreet proofs, 131–142.
- M. Burmester, Homomorphisms of secret sharing schemes: A tool for verifiable signature sharing, 96–106.
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- D. Coppersmith, Finding a small root of a univariate modular equation, 155–165.
- D. Coppersmith, M. Franklin, J. Patarin, M. Reiter, Low-exponent RSA with related messages, 1–9.
- R. Cramer, M. Franklin, B. Schoenmakers, M. Yung, Multi-authority secret-ballot elections with linear work, 72–83.
- I.B. Damgård, T.P. Pedersen, New convertible undeniable signature schemes, 372–386.
- J.-B. Fischer, J. Stern, An efficient pseudo-random generator provably as secure as syndrome decoding, 245–255.
- R. Gennaro, S. Jarecki, H. Krawczyk, T. Rabin, Robust threshold DSS signatures, 354–371.
- K. Gibson, The security of the Gabidulin public key cryptosystem, 212–223.
- J. Golić, Fast low order approximation of cryptographic functions, 268–282.
- S.-M. Hong, S.-Y. Oh, H. Yoon, New modular multiplication algorithms for fast modular exponentiation, 166–177.
- M. Jakobsson, K. Sako, R. Impagliazzo, Designated verifier proofs and their applications, 143–154.

- A. Klapper, On the existence of secure feedback registers, 256–267.
- L.R. Knudsen, T.P. Pedersen, On the difficulty of software key escrow, 237-244.
- L.R. Knudsen, M.J.B. Robshaw, Non-linear approximations in linear cryptanalysis, 224–236.
- B. Meyer, V. Müller, A public key cryptosystem based on elliptic curves over  $\mathbb{Z}/n\mathbb{Z}$  equivalent to factoring, 49–59.
- W. Ogata, K. Kurosawa, Optimum secret sharing scheme secure against cheating, 200–211.
- J. Patarin, Hidden fields equations (HFE) and isomorphisms of polynomials (IP): Two new families of asymmetric algorithms, 33–48.
- B. Pfitzmann, M. Schunter, Asymmetric fingerprinting, 84-95.
- D. Pointcheval, J. Stern, Security proofs for signature schemes, 387–398.
- B. Preneel, P.C. van Oorschot, On the security of two MAC algorithms, 19-32.
- F. Schwenk, J. Eisfeld, Public key encryption and signature schemes based on polynomials over  $\mathbb{Z}_n$ , 60–71.
- V. Shoup, On the security of a practical identification scheme, 344–353.
- V. Shoup, A. Rubin, Session key distribution using smart cards, 321-331.
- M. Stadler, Publicly verifiable secret sharing, 190-199.
- P.C. van Oorschot, M.J. Wiener, On Diffie-Hellman key agreement with short exponents, 332–343.
- X.-M. Zhang, Y. Zheng, Auto-correlations and new bounds on the nonlinearity of Boolean functions, 294–306.

## A.4 Fast Software Encryption Proceedings

Fast Software Encryption: Cambridge Security Workshop, Cambridge, UK., December 1993. Springer-Verlag LNCS 809 (1994).

Editor: R. Anderson

- R. Anderson, A modern rotor machine, 47-50.
- E. Biham, On modes of operation, 116-120.
- U. Blöcher, M. Dichtl, Fish: A fast software stream cipher, 41–44.
- W.G. Chambers, Two stream ciphers, 51–55.
- A. Chan, R. Games, J. Rushanan, On quadratic m-sequences, 166–173.
- J. Daemen, R. Govaerts, J. Vandewalle, A new approach to block cipher design, 18-32.
- A. Di Porto, W. Wolfowicz, VINO: A block cipher including variable permutations, 205–210.
- C. Ding, The differential cryptanalysis and design of natural stream ciphers, 101–115.
- J. Golić, On the security of shift register based keystream generators, 90–100.
- D. Gollmann, Cryptanalysis of clock controlled shift registers, 121-126.
- B.S. Kaliski Jr., M.J.B. Robshaw, Fast block cipher proposal, 33-40.
- A. Klapper, M. Goresky, 2-Adic shift registers, 174–178.
- L.R. Knudsen, Practically secure Feistel ciphers, 211–221.
- H. Krawczyk, The shrinking generator: Some practical considerations, 45–46.
- X. Lai, L.R. Knudsen, Attacks on double block length hash functions, 157–165.
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- N. Maclaren, Cryptographic pseudo-random numbers in simulation, 185–190.
- J. Massey, SAFER K-64: A byte-oriented block-ciphering algorithm, 1–17.
- K. Nyberg, New bent mappings suitable for fast implementation, 179-184.
- B. Preneel, Design principles for dedicated hash functions, 71–82.
- T. Renji, On finite automaton one-key cryptosystems, 135–148.
- M. Roe, Performance of symmetric ciphers and one-way hash functions, 83-89.
- P. Rogaway, D. Coppersmith, A software-optimized encryption algorithm, 56–63.
- B. Schneier, Description of a new variable-length key, 64-bit block cipher (Blowfish), 191-204.
- C. Schnorr, S. Vaudenay, Parallel FFT-hashing, 149–156.
- D. Wheeler, A bulk data encryption algorithm, 127–134.

Fast Software Encryption: Second International Workshop, Leuven, Belgium, December 1994.

Springer-Verlag LNCS 1008 (1995).

Editor: B. Preneel

- R. Anderson, On Fibonacci keystream generators, 346–352.
- R. Anderson, Searching for the optimum correlation attack, 137–143.
- U. Baum, S. Blackburn, Clock-controlled pseudorandom generators on finite groups, 6-21.
- E. Biham, P.C. Kocher, A known plaintext attack on the PKZIP stream cipher, 144–153.
- M. Blaze, B. Schneier, The MacGuffin block cipher algorithm, 97-110.
- U. Blöcher, M. Dichtl, Problems with the linear cryptanalysis of DES using more than one active S-box per round, 265–274.
- W.G. Chambers, On random mappings and random permutations, 22–28.
- J. Daemen, R. Govaerts, J. Vandewalle, Correlation matrices, 275–285.
- C. Ding, Binary cyclotomic generators, 29-60.
- H. Dobbertin, Construction of bent functions and balanced Boolean functions with high nonlinearity, 61–74.
- J.D. Golić, Linear cryptanalysis of stream ciphers, 154–169.
- B.S. Kaliski Jr., M.J.B. Robshaw, Linear cryptanalysis using multiple approximations and FEAL, 249–264.
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- L.R. Knudsen, Truncated and higher order differentials, 196–211.
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- S. Lucks, How to exploit the intractability of exact TSP for cryptography, 298–304.
- D.J.C. MacKay, A free energy minimization framework for inference problems in modulo 2 arithmetic, 179–195.
- J.L. Massey, SAFER K-64: One year later, 212–241.
- K. Nyberg, S-boxes and round functions with controllable linearity and differential uniformity, 111–130.
- L. O'Connor, Properties of linear approximation tables, 131-136.
- W.T. Penzhorn, A fast homophonic coding algorithm based on arithmetic coding, 329–345.
- B. Preneel, Introduction, 1–5.
- V. Rijmen, B. Preneel, Cryptanalysis of McGuffin, 353–358.
- V. Rijmen, B. Preneel, Improved characteristics for differential cryptanalysis of hash functions based on block ciphers, 242–248.
- R.L. Rivest, The RC5 encryption algorithm, 86–96.
- M. Roe, How to reverse engineer an EES device, 305–328.
- M. Roe, Performance of block ciphers and hash functions one year later, 359–362.
- S. Vaudenay, On the need for multipermutations: Cryptanalysis of MD4 and SAFER, 286–297.
- D.J. Wheeler, R.M. Needham, TEA, a tiny encryption algorithm, 363-366.

Fast Software Encryption: Third International Workshop, Cambridge, UK., February 1996.

Springer-Verlag LNCS 1039 (1996).

Editor: D. Gollmann

- R. Anderson, E. Biham, Tiger: a fast new hash function, 89-97.
- R. Anderson, E. Biham, Two practical and provably secure block ciphers: BEAR and LION, 113–120.
- M. Blaze, High-bandwidth encryption with low-bandwidth smartcards, 33-40.
- A. Clark, J.D. Golić, E. Dawson, A comparison of fast correlation attacks, 145–157.
- H. Dobbertin, Cryptanalysis of MD4, 53-69.
- H. Dobbertin, A. Bosselaers, B. Preneel, RIPEMD-160: a strengthened version of RIPEMD, 71–82.
- W. Geiselmann, A note on the hash function of Tillich and Zémor, 51-52.
- J.D. Golić, On the security of nonlinear filter generators, 173–188.
- R. Jenkins Jr., ISAAC, 41-49.
- L.R. Knudsen, T.A. Berson, Truncated differentials of SAFER, 15-26.

- X. Lai, R.A. Rueppel, Attacks on the HKM/HFX cryptosystem, 1-14.
- S. Lucks, Faster Luby-Rackoff ciphers, 189-203.
- M. Matsui, New structure of block ciphers with provable security against differential and linear cryptanalysis, 205–218.
- K. Nyberg, Fast accumulated hashing, 83-87.
- W.T. Penzhorn, Correlation attacks on stream ciphers: computing low-weight parity checks based on errorcorrecting codes, 159–172.
- V. Rijmen, J. Daemen, B. Preneel, A. Bosselaers, E. De Win, The cipher SHARK, 99-111.
- B. Schneier, J. Kelsey, Unbalanced Feistel networks and block cipher design, 121-144.
- S. Vaudenay, On the weak keys of Blowfish, 27-32.

## A.5 Journal of Cryptology papers

#### Journal of Cryptology papers (Volume 1 No.1 - Volume 9 No.3, 1988-1996)

- M. Abadi, J. Feigenbaum, Secure circuit evaluation, 2 (1990), 1-12.
- C. Adams, S. Tavares, The structured design of cryptographically good S-Boxes, 3 (1990), 27–41.
- G.B. Agnew, T. Beth, R.C. Mullin, S.A. Vanstone, Arithmetic operations in  $GF(2^m)$ , 6 (1993), 3–13.
- G.B. Agnew, R.C. Mullin, I.M. Onyszchuk, S.A. Vanstone, An implementation for a fast public-key cryptosystem, 3 (1991), 63–79.
- P. Beauchemin, G. Brassard, A generalization of Hellman's extension to Shannon's approach to cryptography, 1 (1988), 129–131.
- P. Beauchemin, G. Brassard, C. Crépeau, C. Goutier, C. Pomerance, The generation of random numbers that are probably prime, 1 (1988), 53–64.
- D. Beaver, Secure multiparty protocols and zero-knowledge proof systems tolerating a faulty minority, 4 (1991), 75–122.
- M. Bellare, M. Yung, Certifying permutations: noninteractive zero-knowledge based on any trapdoor permutation, 9 (1996), 149–166.
- I. Ben-Aroya, E. Biham, Differential cryptanalysis of Lucifer, 9 (1996), 21–34.
- S. Bengio, G. Brassard, Y.G. Desmedt, C. Goutier, J.-J. Quisquater, Secure implementation of identification systems, 4 (1991), 175–183.
- C.H. Bennett, F. Bessette, G. Brassard, L. Salvail, J. Smolin, Experimental quantum cryptography, (1992), 3–28.
- E. Biham, New types of cryptanalytic attacks using related keys, 7 (1994), 229–246.
- E. Biham, A. Shamir, Differential cryptanalysis of DES-like cryptosystems, 4 (1991), 3–72.
- S. Blackburn, S. Murphy, J. Stern, The cryptanalysis of a public-key implementation of finite group mappings, 8 (1995), 157–166.
- C. Blundo, A. De Santis, D.R. Stinson, U. Vaccaro, Graph decompositions and secret sharing schemes, 8 (1995), 39–64.
- J. Boyar, Inferring sequences produced by a linear congruential generator missing low-order bits, 1 (1989), 177–184.
- J. Boyar, K. Friedl, C. Lund, Practical zero-knowledge proofs: Giving hints and using deficiencies, 4 (1991), 185–206.
- J. Boyar, C. Lund, R. Peralta, On the communication complexity of zero-knowledge proofs, 6 (1993), 65–85.
- J.F. Boyar, S.A. Kurtz, M.W. Krentel, A discrete logarithm implementation of perfect zero-knowledge blobs, 2 (1990), 63–76.
- E.F. Brickell, D.M. Davenport, On the classification of ideal secret sharing schemes, 4 (1991), 123–134.
- E.F. Brickell, K.S. McCurley, An interactive identification scheme based on discrete logarithms and factoring, 5 (1992), 29–39.
- E.F. Brickell, D.R. Stinson, Some improved bounds on the information rate of perfect secret sharing schemes, 5 (1992), 153–166.
- J. Buchmann, H.C. Williams, A key-exchange system based on imaginary quadratic fields, 1 (1988), 107–118.

- R.M. Capocelli, A. De Santis, L. Gargano, U. Vaccaro, On the size of shares for secret sharing schemes, 6 (1993), 157–167.
- D. Chaum, The dining cryptographers problem: Unconditional sender and recipient untraceability, 1 (1988), 65–75.
- B. Chor, M. Geréb-Graus, E. Kushilevitz, On the structure of the privacy hierarchy, 7 (1994), 53-60.
- B. Chor, E. Kushilevitz, Secret sharing over infinite domains, 6 (1993), 87–95.
- D. Coppersmith, Modifications to the number field sieve, 6 (1993), 169–180.
- Z.-D. Dai, Binary sequences derived from ML-Sequences over rings, I: Periods and minimal polynomials, 5 (1992), 193–207.
- D.W. Davies, S. Murphy, Pairs and triplets of DES S-boxes, 8 (1995), 1–25.
- A. De Santis, G. Persiano, The power of preprocessing in zero-knowledge proofs of knowledge, 9 (1996), 129–148.
- M. De Soete, New bounds and constructions for authentication/secrecy codes with splitting, 3 (1991), 173–186.
- M. Dyer, T. Fenner, A. Frieze, A. Thomason, On key storage in secure networks, 8 (1995), 189–200.
- S. Even, O. Goldreich, S. Micali, On-line/off-line digital signatures, 9 (1996), 35–67.
- J.-H. Evertse, E. van Heijst, Which new RSA-signatures can be computed from certain given RSA-signatures?, 5 (1992), 41–52.
- U. Feige, A. Fiat, A. Shamir, Zero-knowledge proofs of identity, 1 (1988), 77-94.
- M. Fischer, R. Wright, Bounds on secret key exchange using a random deal of cards, 9 (1996), 71–99.
- M.J. Fischer, S. Micali, C. Rackoff, A secure protocol for the oblivious transfer, 9 (1996), 191–195.
- R. Forré, Methods and instruments for designing S-Boxes, 2 (1990), 115-130.
- K. Gaarder, E. Snekkenes, Applying a formal analysis technique to the CCITT X.509 strong two-way authentication protocol, 3 (1991), 81–98.
- J. Georgiades, Some remarks on the security of the identification scheme based on permuted kernels, 5 (1992), 133–137.
- P. Godlewski, C. Mitchell, Key-minimal cryptosystems for unconditional secrecy, 3 (1990), 1–25.
- O. Goldreich, A uniform-complexity treatment of encryption and zero-knowledge, 6 (1993), 21–53.
- O. Goldreich, A. Kahan, How to construct constant-round zero-knowledge proof systems for NP, 9 (1996), 167–189.
- O. Goldreich, E. Kushilevitz, A perfect zero-knowledge proof system for a problem equivalent to the discrete logarithm, 6 (1993), 97–116.
- O. Goldreich, Y. Oren, Definitions and properties of zero-knowledge proof systems, 7 (1994), 1–32.
- J. Golić, Correlation properties of a general binary combiner with memory, 9 (1996), 111–126.
- J. Golić, M. Mihaljević, A generalized correlation attack on a class of stream ciphers based on the Levenshtein distance, 3 (1991), 201–212.
- L. Gong, D.J. Wheeler, A matrix key-distribution scheme, 2 (1990), 51–59.
- S. Haber, W.S. Stornetta, How to time-stamp a digital document, 3 (1991), 99–111.
- H. Heys, S. Tavares, Substitution-permutation networks resistant to differential and linear cryptanalysis, 9 (1996), 1–19.
- M. Ito, A. Saito, T. Nishizeki, Multiple assignment scheme for sharing secret, 6 (1993), 15-20.
- T. Itoh, M. Hoshi, S. Tsujii, A low communication competitive interactive proof system for promised quadratic residuosity, 9 (1996), 101–109.
- B.S. Kaliski Jr., One-way permutations on elliptic curves, 3 (1991), 187-199.
- B.S. Kaliski Jr., R.L. Rivest, A.T. Sherman, Is the Data Encryption Standard a group? (Results of cycling experiments on DES), 1 (1988), 3–36.
- R. Kemmerer, C. Meadows, J. Millen, Three systems for cryptographic protocol analysis, 7 (1994), 79–130.
- A. Klapper, The vulnerability of geometric sequences based on fields of odd characteristic, 7 (1994), 33–51.
- N. Koblitz, Hyperelliptic cryptosystems, 1 (1989), 139–150.
- N. Koblitz, Elliptic curve implementation of zero-knowledge blobs, 4 (1991), 207–213.
- A.K. Lenstra, Y. Yacobi, User impersonation in key certification schemes, 6 (1993), 225-232.
- H.W. Lenstra Jr., On the Chor-Rivest knapsack cryptosystem, 3 (1991), 149–155.
- S. Lloyd, Counting binary functions with certain cryptographic properties, 5 (1992), 107–131.
- J.H. Loxton, D.S.P. Khoo, G.J. Bird, J. Seberry, A cubic RSA code equivalent to factorization, 5 (1992), 139–150.
- M. Luby, C. Rackoff, A study of password security, 1 (1989), 151-158.
- S.S. Magliveras, N.D. Memon, Algebraic properties of cryptosystem PGM, 5 (1992), 167–183.

- S.M. Matyas, Key processing with control vectors, 3 (1991), 113–136.
- U. Maurer, Conditionally-perfect secrecy and a provably-secure randomized cipher, 5 (1992), 53-66.
- U. Maurer, A universal statistical test for random bit generators, 5 (1992), 89-105.
- U. Maurer, Fast generation of prime numbers and secure public-key cryptographic parameters, 8 (1995), 123–155.
- U. Maurer, J.L. Massey, Local randomness in pseudorandom sequences, 4 (1991), 135-149.
- U. Maurer, J.L. Massey, Cascade ciphers: The importance of being first, 6 (1993), 55-61.
- K.S. McCurley, A key distribution system equivalent to factoring, 1 (1988), 95–105.
- W. Meier, O. Staffelbach, Fast correlation attacks on certain stream ciphers, 1 (1989), 159-176.
- W. Meier, O. Staffelbach, Correlation properties of combiners with memory in stream ciphers, 5 (1992), 67–86.
- A. Menezes, S. Vanstone, Elliptic curve cryptosystems and their implementation, 6 (1993), 209-224.
- R.C. Merkle, A fast software one-way hash function, 3 (1990), 43-58.
- S. Micali, C.P. Schnorr, Efficient, perfect polynomial random number generators, 3 (1991), 157–172.
- C. Mitchell, Enumerating Boolean functions of cryptographic significance, 2 (1990), 155-170.
- S. Murphy, The cryptanalysis of FEAL-4 with 20 chosen plaintexts, 2 (1990), 145–154.
- S. Murphy, K. Paterson, P. Wild, A weak cipher that generates the symmetric group, 7 (1994), 61–65.
- M. Naor, Bit commitment using pseudorandomness, 4 (1991), 151–158.
- H. Niederreiter, A combinatorial approach to probabilistic results on the linear-complexity profile of random sequences, 2 (1990), 105–112.
- K. Nishimura, M. Sibuya, Probability to meet in the middle, 2 (1990), 13-22.
- K. Nyberg, L.R. Knudsen, Provable security against a differential attack, 8 (1995), 27–37.
- L. O'Connor, An analysis of a class of algorithms for S-box construction, 7 (1994), 133-151.
- L. O'Connor, On the distribution of characteristics in bijective mappings, 8 (1995), 67–86.
- L. O'Connor, A. Klapper, Algebraic nonlinearity and its applications to cryptography, 7 (1994), 213-227.
- G. Orton, L. Peppard, S. Tavares, A design of a fast pipelined modular multiplier based on a diminished-radix algorithm, 6 (1993), 183–208.
- J. Pastor, CRYPTOPOST<sup>TM</sup> –a cryptographic application to mail processing, 3 (1991), 137–146.
- D. Pei, Information-theoretic bounds for authentication codes and block designs, 8 (1995), 177–188.
- S.J. Phillips, N.C. Phillips, Strongly ideal secret sharing schemes, 5 (1992), 185–191.
- F. Piper, M. Walker, Linear ciphers and spreads, 1 (1989), 185–188.
- M. Qu, S.A. Vanstone, Factorizations in the elementary abelian p-group and their cryptographic significance, 7 (1994), 201–212.
- U. Rosenbaum, A lower bound on authentication after having observed a sequence of messages, 6 (1993), 135–156.
- A. Russell, Necessary and sufficient conditions for collision-free hashing, 8 (1995), 87–99.
- R. Scheidler, J.A. Buchmann, H.C. Williams, A key-exchange protocol using real quadratic fields, 7 (1994), 171–199.
- C.P. Schnorr, Efficient signature generation by smart cards, 4 (1991), 161–174.
- A.W. Schrift, A. Shamir, Universal tests for nonuniform distributions, 6 (1993), 119-133.
- G.J. Simmons, A cartesian product construction for unconditionally secure authentication codes that permit arbitration, 2 (1990), 77–104.
- G.J. Simmons, Proof of soundness (integrity) of cryptographic protocols, 7 (1994), 69–77.
- D.R. Stinson, A construction for authentication/secrecy codes from certain combinatorial designs, 1 (1988), 119–127.
- D.R. Stinson, Some constructions and bounds for authentication codes, 1 (1988), 37–51.
- D.R. Stinson, The combinatorics of authentication and secrecy codes, 2 (1990), 23–49.
- D.R. Stinson, J.L. Massey, An infinite class of counterexamples to a conjecture concerning nonlinear resilient functions, 8 (1995), 167–173.
- S.-H. Teng, Functional inversion and communication complexity, 7 (1994), 153–170.
- M. Tompa, H. Woll, How to share a secret with cheaters, 1 (1988), 133–138.
- S.A. Vanstone, R.J. Zuccherato, Short RSA keys and their generation, 8 (1995), 101-114.
- M. Walker, Information-theoretic bounds for authentication schemes, 2 (1990), 131–143.
- Y.-X. Yang, B. Guo, Further enumerating boolean functions of cryptographic significance, 8 (1995), 115–122.