

Journal or Formally Refereed Conference Articles

LNCS is the series of Lecture Notes in Computer Science by Springer-Verlag, EI.

1. A. Polyakov, M.-H. Tsai, B.-Y. Wang, and B.-Y. YANG, *Verifying Arithmetic Assembly Programs in Cryptographic Primitives*, Invited Talk and Paper, CONCUR 2018 (September 4–7, Beijing, China): Leibniz International Proceedings in Informatics 118, pp. 4:1–4:16.
2. W.-D. Li, M.-S. Chen, P.-C. Kuo, C.-M. Cheng, and B.-Y. YANG, *Frobenius Additive Fast Fourier Transform*, Proc. ACM ISSAC 2018 (July 15–18, New York City) pp. 1973–1987.
3. D. J. Bernstein and B.-Y. YANG, *Asymptotically faster quantum algorithms to solve multivariate quadratic equations*, PQCrypto 2018 (April 9–11, Fort Lauderdale, Florida, USA), LNCS 10786, pp. 487–506.
4. R. Niederhagen, K.-C. Ning and B.-Y. YANG, *Implementing Joux-Vitse’s Crossbred Algorithm for Solving MQ Systems on GPUs*, PQCrypto 2018, *ibid.* pp. 121–141.
5. M.-S. Chen, W.-D. Li, B.-Y. Peng, B.-Y. YANG, and C.-M. Cheng, *Implementing 128-bit Secure MPKC Signatures*, IEICE Transactions vol. E101-A(2018) No. 3, pp. 553–569.
6. M.-H. Tsai, B.-Y. Wang, and B.-Y. YANG *Certified Verification of Algebraic Properties on Low-Level Mathematical Constructs in Cryptographic Programs*, proc. ACM CCS 2017 (24th ACM Conference on Computer and Communications Security, Dallas, TX, USA, Oct. 30-Nov. 3), pp. 1973–1987.
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8. S.-Y. Yang, P.-C. Kuo, C.-M. Cheng, and B.-Y. YANG, *Gauss Sieve Algorithm on GPUs*, CT-RSA 2017 (San Francisco, Feb. 14–17), LNCS 10159, pp. 39–57.
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11. Y.-A. Chang, M.-S. Chen, J.-S. Wu and B.-Y. YANG, *Postquantum SSL/TLS for Embedded Systems*, IoT workshop at IEEE SOCA 2014 (Matsue, Japan, Nov. 17-19).
12. R. Fitzpatrick, C. Bischof, J. Buchmann, Ö. Dagdelen, F. Göpfert, A. Mariano, B.-Y. Yang, *Tuning Gauss Sieve for Speed*, Latincrypt 2014 (3rd Latin American Conference on Cryptography and Information Security, Florianopolis, Brazil, Sept. 17-19), LNCS 8895, pp. 288-305.
13. Y.-F. Chen, C.-H. Hsu, H.-H. Lin, P. Schwabe, M.-H. Tsai, B.-Y. Wang, B.-Y. YANG, and S.-Y. Yang, *Verifying Curve25519 Software*, presented at ACM CCS 2014 (21st ACM Conference on Computer and Communications Security, Scottsdale, Arizona, USA, Nov. 3-7, 2014).

14. Y.-A. Chang, W.-C. Hong, M.-C. Hsiao, B.-Y. YANG, A.-Y. Wu and C.-M. Cheng, *Hydra: An energy-efficient programmable cryptographic coprocessor supporting elliptic-curve pairings over fields of large characteristics*, IWSEC 2014 (The 9th International Workshop on Security, Hirosaki, Japan, Aug. 27-29, 2014), LNCS 8639, pp. 174–186.
15. J. Y.-C. Yeh, C.-M. Cheng, B.-Y. YANG, *Operating Degrees for XL vs. $\mathbb{F}_4/\mathbb{F}_5$ for Generic \mathcal{MQ} with Number of Equations Linear in That of Variables*, Number Theory and Cryptography Workshop 2013 (November 21-22, TU Darmstadt, Germany), LNCS 8260, pp. 19–33.
16. C. Bouillaguet, C.-M. Cheng, T. Chou, R. Niederhagen and B.-Y. YANG, *Fast Exhaustive Search for Quadratic Systems in \mathbb{F}_2 on FPGAs*, SAC 2013 (20th workshop on Selected Areas in Cryptography, Aug. 14–16, Simon Fraser University, Burnaby, BC, Canada); LNCS 8282, pp. 205–222. Current version at ePrint 2014/436.
17. M.-S. Chen, C.-M. Cheng, B.-Y. YANG, *RAIDq: A software-friendly, multiple-parity RAID*, USENIX HotStorage 2013 (USENIX Federated Workshops, June 27-28, San Jose, CA, USA).
18. J. Ding, B.-Y. YANG, *Degree of Regularity for HFEv and HFEv-*, PQCrypto 2013 (5th Post-Quantum Cryptography Workshop, June 4–6, Limoges, France), LNCS 7932, pp. 52–66.
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30. Y.-H. Lin, A. Studer, Y.-H. Chen, H.-C. Hsiao, E. L.-H. Kuo, J. Lee, J. McCune, K.-H. Wang, M. Krohn, A. Perrig, B.-Y. YANG, H.-M. Sun, and P.-L. Lin, *SPATE: Small-group PKI-less Authenticated Trust Establishment*, IEEE Trans on Mobile Computing **9:12**(2010), pp. 1666-1681 (SCI). [Note: IEEE Trans. TMC. invited this paper as best paper of MobiSys 2009 (7th Int'l Conference on Mobile Systems, Applications, and Services, June 22–25, Wroclaw, Poland), ACM proceedings pp. 1–14 *SPATE: Small-group PKI-less Authenticated Trust Establishment*.]
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