Peer-Reviewed Journal Papers (First author)

1. **Md. Al-Amin Khandaker** and Yasuyuki Nogami. "An Improvement of Scalar Multiplication by Skew Frobenius Map with Multi-Scalar Multiplication for KSS Curve". In: *IEICE Transactions* 100-A.9 (2017), pp. 1838-1845. DOI: 10.1587/transfun.E100.A.1838.

2. **Md. Al-Amin Khandaker**, Taehwan Park, Yasuyuki Nogami, and Howon Kim. "A Comparative Study of Twist Property in KSS Curves of Embedding Degree 16 and 18 from the Implementation Perspective". In: *J. Inform. and Commun. Convergence Engineering* 15.2 (2017), pp. 97-103. DOI: 10.6109/jicce.2017.15.2.97.

Peer-Reviewed International Conference Papers (First author)

LNCS Proceedings:

3. **Md. Al-Amin Khandaker**, Yuki Nanjo, Loubna Ghammam, Sylvain Duquesne, Yasuyuki Nogami, and Yuta Kodera. "Efficient Optimal Ate Pairing at 128-Bit Security Level". In: *INDOCRYPT 2017*. Ed. by Arpita Patra and Nigel P. Smart. Vol. 10698. LNCS. Springer, Heidelberg, Dec. 2017, pp. 186–205. DOI: 10.1007/978-3-319-71667-1_10. (Acceptance rate $19/75 \approx 25\%$)

4. **Md. Al-Amin Khandaker**, Hirotaka Ono, Yasuyuki Nogami, Masaaki Shirase, and Sylvain Duquesne. "An Improvement of Optimal Ate Pairing on KSS Curve with Pseudo 12-Sparse Multiplication". In: *ICISC 2016*. Ed. by Seokhie Hong and Jong Hwan Park. Vol. 10157. LNCS. Springer, Heidelberg, Nov. 2016, pp. 208–219. DOI: 10.1007/978-3-3195 3177-9_11. (Acceptance rate $18/69 \approx 26\%$)

5. **Md. Al-Amin Khandaker**, Yasuyuki Nogami, Hwajeong Seo, and Sylvain Duquesne. "Efficient Scalar Multiplication for Ate Based Pairing over KSS Curve of Embedding Degree 18". In: *WISA 2016*. Ed. by Dooho Choi and Sylvain Guilley. Vol. 10144. LNCS. Springer, Heidelberg, Aug. 2016, pp. 221–232. DOI: 10.1007/978-3-319-56549-1_19. (Acceptance rate $31/61 \approx 51\%$)

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6. **Md. Al-Amin Khandaker**, Yuki Nanjo, Takuya Kusaka, and Yasuyuki Nogami. "A Comparative Implementation of GLV Technique on KSS-16 Curve." In: *Sixth International Symposium on Computing and Networking, CANDAR 2018*, Gifu, Japan, Nov. 2018, pp. 106–112. DOI: 10.1109/CANDAR.2018.00021. (Acceptance rate $28/77 \approx 36\%$)

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8. **Md. Al-Amin Khandaker** and Yasuyuki Nogami. "A consideration of towering scheme for efficient arithmetic operation over extension field of degree 18". In: *19th International Conference on Computer and Information Technology, ICCIT 2016*, Dhaka, Bangladesh, Dec. 2016, pp. 276–281. DOI: 10.1109/ICCITECHN.2016.7860209.

9. **Md. Al-Amin Khandaker** and Yasuyuki Nogami. "An improvement of scalar multiplication on elliptic curve defined over extension field Fq2". In: *IEEE International Conference on Consumer Electronics-Taiwan, ICCE- TW 2016*, Nantou, Taiwan, May. 2016, pp. 1–2. DOI: 10.1109/ICCE-TW.2016.7520894.

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10. **Md. Al-Amin Khandaker** and Yasuyuki Nogami. "Frobenius Map and Skew Frobenius Map for Ate-based Pairing over KSS Curve of Embedding Degree 16 ". In: *32nd International Technical Conference on Circuits / Systems, Computers and Communications, ITC-CSCC 2017*, Busan, Korea, Jul. 2017, pp. 599-602, IEIE, CD-ROM (OS22-5).

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11. Yuki Nanjo, **Md. Al-Amin Khandaker**, Takuya Kusaka, and Yasuyuki Nogami. "Efficient Pairing-Based Cryptography on Raspberry Pi". In: *Journal of Communications (JCM)* 13.2 (2018), pp. 88–93. DOI: `10.12720/jcm.13.2.88-93`.

12. Yuta Hashimoto, **Md. Al-Amin Khandaker**, Yuta Kodera, Taehwan Park, Takuya Kusaka, Howon Kim, and Yasuyuki Nogami. "An Implementation of ECC with Twisted Montgomery Curve over 32nd Degree Tower Field on Arduino Uno". In: *International Journal of Networking and Computing (IJNC)* 8.2 (2018), pp. 341–350. DOI: `10.15803/ijnc.8.2_341`.

13. Yuta Kodera, Takeru Miyazaki, **Md. Al-Amin Khandaker**, Ali Md. Arshad, Takuya Kusaka, Yasuyuki Nogami, and Satoshi Uehara. "Distribution of Digit Patterns in Multi-Value Sequence over the Odd Characteristic Field". In: *IEICE Transactions* 101-A.9 (2018), pp. 1525–1536. DOI: `10.1587/transfun.E101.A.1525`.

14. Shunsuke Ueda, Ken Ikuta, Takuya Kusaka, **Md. Al-Amin Khandaker**, Ali Md. Arshad, and Yasuyuki Nogami. "An Extended Generalized Minimum Distance Decoding for Binary Linear Codes on a 4-Level Quantization over an AWGN Channel". In: *IEICE Transactions* 101-A.8 (2018), pp. 1235–1244. DOI: `10.1587/transfun.E101.A.1235`.

15. Shoma Kajitani, Yasuyuki Nogami, Shunsuke Miyoshi, Thomas Austin, **Md. Al-Amin Khandaker**, Nasima Begum, and Sylvain Duquesne. "Web-based Volunteer Computing for Solving the Elliptic Curve Discrete Logarithm Problem". In: *International Journal of Networking and Computing (IJNC)* 6.2 (2016), pp. 181–194. DOI: `10.15803/ijnc.6.2_181`.

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16. Yuki Nanjo, **Md. Al-Amin Khandaker**, Masaaki Shirase, Takuya Kusaka, and Yasuyuki Nogami. "Efficient Ate-Based Pairing over the Attractive Classes of BN Curves". In: *WISA 2018*. [To appear in LNCS, Springer, Heidelberg], Aug. 2018. (Acceptance rate 22/44 = 50%)

17. Takuya Kusaka, Sho Joichi, Ken Ikuta, **Md. Al-Amin Khandaker**, Yasuyuki Nogami, Satoshi Uehara, Nariyoshi Yamai, and Sylvain Duquesne. "Solving 114-Bit ECDLP for a Barreto-Naehrig Curve". In: *ICISC 2017*. Ed. by Howon Kim and Dong-Chan Kim. Vol. 10779. LNCS. Springer, Heidelberg, Oct. 2017, pp. 231–244. DOI: `10.1007/978-3-319-78556-1_13`. (Acceptance rate 20/70 ≈ 29%)

18. Taehwan Park, Hwajeong Seo, Garam Lee, **Md. Al-Amin Khandaker**, Yasuyuki Nogami, and Howon Kim. "Parallel Implementations of SIMON and SPECK, Revisited". In: *WISA 2017*. Ed. by Brent ByungHoon Kang and Taesoo Kim. Vol. 10763. LNCS. Springer, Heidelberg, Aug. 2017, pp. 283–294. DOI: `10.1007/978-3-319-93563-8_24`. (Acceptance rate 27/53 ≈ 51%).

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19. Yuki Nanjo, **Md. Al-Amin Khandaker**, Takuya Kusaka, and Yasuyuki Nogami. "Consideration of Efficient Pairing Applying Two Construction Methods of Extension Fields." In: *Sixth International Symposium on Computing and Networking, CANDAR 2018*, Gifu, Japan, Nov. 2018, pp. 445–451. DOI: `10.1109/CANDARW.2018.00087`.

20. Yuta Hashimoto, **Md. Al-Amin Khandaker**, Yuta Kodera, Taehwan Park, Takuya Kusaka, Howon Kim, and Yasuyuki Nogami. "An ECC Implementation with a Twisted Montgomery Curve over Fq32 on an 8-Bit Microcontroller". In: *Fifth International Symposium on Computing and Networking, CANDAR 2017*, Aomori, Japan, Nov. 2017, pp. 445–450. DOI: `10.1109/CANDAR.2017.90`.

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29. **Md. Al-Amin Khandaker** and Yasuyuki Nogami. "Efficient Scalar Multiplication by Skew Frobenius Map with Multi-Scalar Multiplication for KSS Curve". In: *Symposium on Cryptography and Information Security (SCIS), 2017*, Okinawa, Jan. 2017, CD-ROM (B1-3).

Domestic conferences (Co-author)

30. Yuki Nanjo, **Md. Al-Amin Khandaker**, Masaaki Shirase, Takuya Kusaka, and Yasuyuki Nogami. "Attractive Classes of KSS Curves for Efficient Pairing". In: *Symposium on Cryptography and Information Security 2019 (SCIS)*, Shiga, Jan. 2019.

31. Yuki Nanjo, **Md. Al-Amin Khandaker**, Takuya Kusaka, Yasuyuki Nogami. "A Study on a Construction Method of Degree 18 Extension Field for Efficient Pairing over KSS Curves". In: *Computer Security Symposium (CSS), 2018*, Nagano, Oct. 2018, CD-ROM (2A3-1).

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34. Yuki Nanjo, **Md. Al-Amin Khandaker**, Yuta Kodera and Yasuyuki Nogami. "Implementation method of the pairing over BN curve using two type of extension fields". In: *Symposium on Cryptography and Information Security (SCIS), 2018*, Niigata, Jan. 2018, CD-ROM (4D2-3).

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