研究兴趣: 密码学

- 基本密码组件及归约技术
- 高功能高安全的密码方案设计
- 零知识证明系统、多方安全计算
- 隐私保护技术在密码货币中的应用

工作经历

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教育背景

•	理学博士(计算机软件与理论),北京大学,信息科学技术学院(导师:陈钟)	2006.09 - 2011.07
•	博士生联合培养, 爱尔兰都柏林城市大学, 计算机系 (导师: Michael Scott)	2009.09 - 2010.08
•	工学学士 (信息安全), 合肥工业大学, 计算机与信息工程学院	2002.09 - 2006.07
	GPA: 90/100, 专业排名: 1st/49	

科研项目 (主持)

•	身份加密体制的 KDM 安全研究 国	家自然科学基金面上项目 (No. 61772522)	2018.01-2021.12
•	抗泄漏的函数加密体制研究 国家自	然科学基金青年项目 (No. 61303257)	2014.01-2016.12
•	抗泄漏密码体制的若干关键问题研究	密码科学技术国家重点实验室面上项目	2018.07-2020.06
•	中国科学院青年创新促进会 (院人才巧	2017.01-2020.12	
•	中国科学院信息工程研究所青年之星	(所人才项目)	2014.01-2016.12

教学 (中国科学院大学)

- 2017 春季, 2018 春季、秋季 理论密码学 @ 中国科学院大学网络空间安全学院
- 2018 夏季, 2019 夏季 高级密码组件及其应用 @ 中国科学院大学网络空间安全学院

学术服务

- 审稿人: ASIACRYPT (2012, 2013, 2016, 2017), PKC (2018, 2019)
- 程序委员会委员: INSCRYPT 2014, Provsec 2016, CANS 2017, INSCRYPT 2018, 2019
- 中国密码学会青年工作委员会委员

奖励

• 2018 年密码创新奖二等奖 (个人奖)

CCF Rank CACR Rank

期刊论文(部分)

- 1. Binbin Tu, **Yu Chen***, Xueli Wang. Threshold Trapdoor Functions and Their Applications. *IET Information Security*, Vol.14(2), 2020, pp.220-231. (CCF C)
- 2. Binbin Tu, **Yu Chen***. A Survey of Threshold Cryptosystems. *Journal of Cryptologic Research*, Vol. 7(1), 2020, pp.1–14. (CCF B)
- 3. Yu Chen, Jiang Zhang, Yi Deng, Jinyong Chang. KDM Security for IBE: Generic Constructions and Separations. *Information Sciences*, Vol. 486, 2019, pp. 450-473. (CCF B, JCR 1 ⋈)
- Yu Chen, Baodong Qin, Haiyang Xue. Regular Lossy Functions and Their Applications in Leakage-Resilient Cryptography. Theoretical Computer Science, Vol.739, 2018, pp.13-38. A preliminary version of this paper appears in CT-RSA 2018. (CCF B)
- 5. Yu Chen, Zongyang Zhang. Publicly Evaluable Pseudorandom Functions and Their Applications. Journal of Computer Security, Vol.24(2), 2016, pp.289-320. A preliminary version of this paper appears in SCN 2014. (CCF B)
- Yu Chen, Qiong Huang, Zongyang Zhang. Sakai-Ohgishi-Kasahara identity-based non-interactive key exchange revisited and more. *International Journal of Information Security*, Vol.15(1), 2016, pp.15-33. A preliminary version of this paper appears in ACISP 2014. (CCF B)
- 7. Yu Chen, Jiang Zhang, Dongdai Lin, Zhenfeng Zhang. Generic Constructions of Integrated PKE and PEKS. *Designs, Codes and Cryptography*, Vol.78(2), 2016, pp.493-526. (CCF B)
- 8. Jiang Zhang, Zhenfeng Zhang, **Yu Chen**. PRE: Stronger Security Notions and Efficient Construction with Non-interactive Opening. *Theoretical Computer Science*, Vol.542, 2014, pp.1-16. (CCF B)
- 9. Yu Chen, Liquin Chen, Dongdai Lin. Reflections on the Security Proofs of Boneh-Franklin Identity-Based Encryption Scheme. *Science China Mathematics*, Vol.56(7), 2013, pp.1385-1401. (CCF B)
- 10. **Yu Chen**, Zongyang Zhang, Dongdai Lin, Zhenfu Cao. Generalized (Identity-Based) Hash Proof System and Its Applications. *Security and Communication Networks*, online. A preliminary version of this paper appears in Provsec 2012. (CCF C)
- 11. **Yu Chen**, Zongyang Zhang, Dongdai Lin, Zhenfu Cao. CCA-Secure IB-KEM from Identity-Based Extractable Hash Proof System. *The Computer Journal*, Vol.57(10), 2014, pp.1537-1556. A preliminary version of this paper appears in ACNS 2012. (CCF B)
- 12. Liqun Chen, **Yu Chen**. The *n*-Diffie-Hellman Problem and Multiple-Key Encryption. *International Journal of Information Security*, Vol.11, No.5, 2012, pp.305-320. A preliminary version of this paper appears in ISC 2011. (CCF B)

会议论文 (部分)

- Xueli Wang, Yu Chen*, Xuecheng Ma. Adding Linkability to Ring Signatures with One-Time Signatures. ISC 2019.
- Yu Chen, Yuyu Wang, Hong-Sheng Zhou. Leakage-Resilient Cryptography from Puncturable Primitives and Obfuscation. ASIACRYPT 2018. (CACR A)

- 3. Yu Chen, Baodong Qin, Haiyang Xue. Regularly Lossy Functions and Their Applications in Leakage-Resilient Cryptography. CT-RSA 2018. (CACR B)
- 4. Zheng Yang, **Yu Chen**, Song Luo. Two-message Key Exchange with Strong Security from Ideal Lattices. CT-RSA 2018. (CACR B)
- Yi Deng, Xuyang Song, Jingyue Yu, Yu Chen. On the Security of Classic Protocols for Unique Witness Relations. PKC 2018. (CCF B)
- 6. Jingyue Yu, Yi Deng, **Yu Chen**. From Attack on Feige-Shamir to Construction of Oblivious Transfer. *INSCRYPT 2017*. (CACR C)
- 7. Baodong Qin, Shuai Han, **Yu Chen**, Shengli Liu, Zhuo Wei. How to Make the Cramer-Shoup Cryptosystem Secure Against Linear Related-Key Attacks. *INSCRYPT 2016*. (CACR C)
- 8. Jiang Zhang, **Yu Chen**, Zhenfeng Zhang. Programmable Hash Functions from Lattices: Short Signatures and IBEs with Small Key Sizes. *CRYPTO 2016*, pp.303-332. (CCF A)
- 9. Yu Chen, Baodong Qin, Jiang Zhang, Yi Deng, Sherman S. M. Chow. Non-Malleable Functions and Their Applications. *PKC 2016*, pp.386-416. (CCF B)
- 10. Zongyang Zhang, **Yu Chen**, Sherman S. M. Chow, Goichiro Hanaoka, Zhenfu Cao and Yunlei Zhao. Black-Box Separations of Hash-and-Sign Signatures in the Non-Programmable Random Oracle Model. *Provsec 2015*, pp.435-454. (CACR C)
- 11. Jiang Zhang, Zhenfeng Zhang, **Yu Chen**, Yanfei Guo, Zongyang Zhang. Black-Box Separations for One-More (Static) CDH and Its Generalization. *ASIACRYPT 2014*, pp.366-385. (CACR A)
- Yu Chen, Zongyang Zhang. Publicly Evaluable Pseudorandom Functions and Their Applications.
 The 9th Conference on Security and Cryptography for Networks, SCN 2014, pp.115-134. (CACR B)
- Yu Chen, Qiong Huang, Zongyang Zhang. Sakai-Ohgishi-Kasahara Non-Interactive Identity-Based Key Exchange Scheme, Revisited. The 19th Australasian Conference on Information Security and Privacy, ACISP 2014, pp.274-289. (CCF C)
- Zongyang Zhang, Yu Chen, Sherman S.M. Chow, Goichiro Hanaoka, Zhenfu Cao, Yunlei Zhao.
 All-but-One Dual Projective Hashing and Its Applications. The 12th International Conference on Applied Cryptography and Network Security, ACNS 2014, pp.181-198. (CCF C)
- Yu Chen, Zongyang Zhang, Dongdai Lin, Zhenfu Cao. Anonymous Identity-Based Hash Proof Systems and Their Applications. The 6th International Conference on Provable Security, ProvSec 2012, pp.143-160. (CACR C)
- Yu Chen, Zongyang Zhang, Dongdai Lin, Zhenfu Cao. Identity-Based Extractable Hash Proofs and Their Applications. The 10th International Conference on Applied Cryptography and Network Security, ACNS 2012, pp.153-170. (CCF C)
- 17. **Yu Chen**, Liqun Chen, Zongyang Zhang. CCA-secure IB-KEM based on the Computational Bilinear Diffie-Hellman Assumption. *The 14th Annual International Conference on Information Security and Cryptology, ICISC 2011*, pp.279-301. (CACR C)
- 18. Liqun Chen, Yu Chen. The *n*-Diffie-Hellman Problem and Its Applications. The 14th International Conference on Information Security, ISC 2011, pp.119-134. (CACR C)
- Yu Chen, Song Luo, Zhong Chen. A New Leakage-Resilient IBE Scheme in the Relative Leakage Model. The 25th Annual WG 11.3 Conference on Data and Applications Security and Privacy,

- DBSec 2011, pp.263-270.
- Yu Chen, Song Luo, Jianbin Hu, Zhong Chen. A Novel Commutative Blinding Identity-Based Encryption Scheme. The 4th Canada-France MITACS Workshop on Foundations & Practice of Security, FPS 2011, pp.73-88.
- 21. Yu Chen, Liqun Chen, Zhong Chen. Generic Methods to Achieve Tighter Security Reductions for a Category of IBE Schemes. *The 7th Information Security Practice and Experience Conference, ISPEC 2011*, pp.40-54. (CACR C)
- 22. Song Luo, **Yu Chen**, Jianbin Hu, Zhong Chen. New Fully Secure Hierarchical Identity-Based Encryption with Constant Size Ciphertexts. *The 7th Information Security Practice and Experience Conference*, *ISPEC 2011*, pp.55-70. (CACR C)
- 23. Yu Chen, Liqun Chen. Twin Bilinear Diffie-Hellman Inversion Problem and Its Application. The 13th Annual International Conference on Information Security and Cryptology, ICISC 2010, pp.113-132. (CACR C)
- Yu Chen, Hyun Sung Kim, Jianbin Hu, Zhong Chen. When ABE meets RSS. 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security, DBSec 2010, pp.319-326.
- 25. Yu Chen, Manuel Charlemagne, Zhi Guan, Jianbin Hu, Zhong Chen. Identity-Based Encryption based on DHIES. The 5th ACM Symposium on Information, Computer and Communications Security, ASIACCS 2010, pp.82-88. (CACR B)