

KAN YANG

Department of Computer Science
Associate Director of Center for Information Assurance
The University of Memphis, Memphis, TN, 38152

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RESEARCH INTERESTS

- Data Security (Cloud, Fog, IoT)
- Blockchain (Security, Privacy, Consensus, Block Validation, Block Synchronization)
- Adversarial Machine Learning (Federated Learning, Deep Learning)
- Network Security and Trust (Crowdsourcing, ICN, NDN, 5G, VANET, WMN)
- Applied Cryptography

RESEARCH IMPACT

Google Scholar Citations: 4100, h-index: 30, i10-index: 41 (updated on Sept 1st 2020)

Google Scholar Profile: <https://scholar.google.com/citations?user=QqGPbXYAAAAJ&hl=en>

EDUCATION

City University of Hong Kong, Hong Kong Ph.D. in Computer Science Thesis Topic: Security for Cloud Storage Systems (Outstanding Research Thesis Award)	2009.09-2013.08
State University of New York at Buffalo, NY, USA Visiting PhD Student in UbiSec Lab	2012.10-2013.06
University of Science and Technology of China, Anhui, China B.Eng. in Information Security	2004.09-2008.07

PROFESSIONAL EMPLOYMENT

The University of Memphis, TN, USA Assistant Professor	2017.01- present
City University of Hong Kong, Hong Kong Research Fellow	2016.07-2017.01
University of Waterloo, Ontario, Canada Postdoctoral Fellow	2014.07-2016.06
City University of Hong Kong, Hong Kong Postdoctoral Fellow	2013.09-2014.07
Suzhou Institute of Advanced Study, University of Sci. & Tech. of China, China Research Assistant	2008.09-2009.07

GRANTS

PI: PKChain: Decentralized Public-Key Management System based on Blockchain Technology", FedEx Institute of Technology Development Grant - CAST, \$15,000, 7/1/2018 – 12/31/2019

TEACHING EXPERIENCE

The University of Memphis, TN, USA	2017.01- present
COMP 3825 Networking and Information Assurance (Spring 2019, Spring 2020, Fall 2020)	
COMP 4/6420 Network and Mobile Security (Fall 2017, Fall 2018, Fall 2019, Fall 2020)	
COMP 7/8120 Cryptography and Data Security (Spring 2017, Spring 2018, Spring 2019, Spring 2020)	
COMP 7/8998 Seminar: Security and Privacy in Cloud Computing and IoT (Fall 2019)	
Curriculum Development on Cybersecurity Concentration Program in CS Dept. of UofM (2017)	
Coordinator of On-ground/Online Graduate Certification on Cybersecurity and Information Assurance (2020)	

ACADEMIC ACTIVITIES

Professional Service

- Chair of Special Session on Computing and Applications for Cyber Internet of Things (Cyber-IoT) in 2017 IEEE Cyber Science and Technology Congress (CyberSciTech 2017)

TPC Member

- IEEE International Conference on Communications (ICC'17-20)
- IEEE International Conference on Blockchain (Blockchain'18-20)
- IEEE Global Communications Conference (GLOBECOM'16-20)
- IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS'18-20)
- The 15th International Conference on Green, Pervasive and Cloud Computing (GPC'20)
- The 5th International Symposium on Privacy Computing (PriCom'19)
- IEEE International Conference on Wireless Communications and Signal Processing (WCSP'17-18)
- IEEE International Conference on Computing, Networking and Communications (ICNC'16-17)
- IEEE International Conference on Computer Communications and Networks (ICCCN'15-17)
- IEEE Vehicular Technology Conference (VTC'16-Spring, VTC'16-Fall)
- IEEE International Performance Computing and Communications Conference (IPCCC'15-16)
- International Workshop on Security in Cloud Computing (Asiaccs'14-SCC)
- IEEE Wireless and Optical Communication Conference (WOCC'13)

Invited Talks/Presentations

- "Blockchain-based Decentralized Public Key Management for Named Data Networking"
Named Data Networking Community Meeting at NIST Sept 2018
- "Secure and Scalable Data Outsourcing in the Public Cloud"
Guest Speaker for CityU-CS Research Student Workshop, Hong Kong June 2017
- "Attribute-based Fine-Grained Access Control with Efficient Revocation in Cloud Storage Systems"
ASIACCS'13, Hangzhou, China May 2013
- "DAC-MACS: Effective Data Access Control for Multi-Authority Cloud Storage Systems"
INFOCOM'13, Turin, Italy April 2013
- "Attributed-based Access Control for Multi-authority Systems in Cloud Storage"
ICDCS'12, Macau June 2012
- "Threshold Key Redistribution for Dynamic Change of Authentication Group in Wireless Mesh Networks"
GlobalCom'10, Miami, USA December 2010

Journal Reviewer

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| IEEE Trans. on Information Forensics & Security | IEEE Transactions on Service Computing |
| IEEE Trans. on Dependable & Secure Computing | IEEE Internet of Things Journal |
| IEEE Trans. on Knowledge and Data Engineering | IEEE Trans. on Vehicular Technology |
| IEEE Trans. on Parallel & Distributed Systems | IEEE Trans. on Cloud Computing |
| IEEE Trans. on Mobile Computing | IEEE/ACM Trans. on Networking |
| ACM Trans. on Intelligent Systems and Technology | IEEE Communications Magazine |
| ACM Trans. on Embedded Computing Systems | IEEE Wireless Communications |

Graduate Committee

- | | |
|--------------------------------------|-------------------------------------|
| Kishor Datta Gupta (Ph.D.) | Senjuti Dutta (MS, July 2020) |
| Muktadir Chowdhury (MS, Nov. 2019) | Ashlesh Gawande (MS, Nov. 2019) |
| Sheldon C. Ebron Jr. (MS, Apr. 2019) | Kul Prasad Subedi (Ph.D, July 2018) |
| Anjana Tiha (MS, April 2018) | Jobin Jacob Sunny (MS, Nov. 2017) |
| Tadael Zerai Fekede (MS, July 2017) | Vamsi Krishna Polam (MS, July 2017) |
| Nusrat Nasrin (MS, April 2017) | |

EXTRACURRICULAR EXPERIENCE

- | | |
|---|-----------------|
| Microsoft China Research & Development Group
Microsoft Campus Ambassador | 2007.04-2008.05 |
| University of Science and Technology of China
President of College Student Union | 2006.04-2007.03 |

HONORS & AWARDS

- Outstanding Research Thesis Award, City University of Hong Kong 2013
(The **only winner** in CS department, and one out of 6 winners in the whole university)
- Postgraduate Studentship, UGC-related/UGC-allocated Funds, Hong Kong 2009-2013
- Excellent Project Award in Undergraduate Summer Research Project, USTC 2007
- The Province Merit Student (twice), Ministry of Education of Anhui, China 2006&2007
- Most Valuable School Ambassador, Microsoft China Research & Development Group 2007

PUBLICATIONS

2020

- [C23] G. Xu, H. Li, H. Ren, J. Sun, S. Xu, J. Ning, H. Yang, **K. Yang** and R. Deng, "Secure and Verifiable Inference in Deep Neural Networks". To appear on *Proc. of 36th Annual Computer Security Applications Conference (ACSAC'20)*, Austin, TX, 7-11 December 2020.
- [J37] A. Yang, J. Weng, **K. Yang**, C. Huang and X. Shen, "Delegating Authentication to Edge: A Decentralized Authentication Architecture for Vehicular Networks". To appear on *IEEE Transactions on Intelligent Transportation Systems*, August 2020.
- [J36] Y. Zhang, C. Xu, H. Li, **K. Yang**, N. Cheng, and X. Shen, "PROTECT: Efficient Password-based Threshold Single-sign-on Authentication for Mobile Users against Perpetual Leakage". To appear on *IEEE Transactions on Mobile Computing*, DOI: 10.1109/TMC.2020.2975792, 2020.
- [J35] G. Xu, H. Li, S. Liu, **K. Yang** and X. Lin, "VerifyNet: Secure and Verifiable Federated Learning". *IEEE Transactions on Information Forensics and Security*, vol. 15, pp 911-926, 2020.
- [J34] Z. Su, Q. Xu, Q. Zhao, J. Song, W. Shen, Y. Wang, and **K. Yang**, "Experience Blocking Ratio Based Game Theoretic Approach for Spectrum Sharing in Heterogeneous Networks". *IEEE Transactions on Network Science and Engineering*, vol. 7, no. 1, pp. 343-355, 2020.
- [C22] K. Fan, B. Zhao, W. You, **K. Yang**, Z. Wang, and H. Li. "A Weight-based k-prototypes Algorithm for Anomaly Detection in Smart Grid". In *Proc. of IEEE International Conference on Communications (ICC'20)*, Dublin, Ireland, 7-11 June 2020.

2019

- [J33] G. Xu, H. Li, H. Ren, **K. Yang** and R. H. Deng, "Data Security Issues in Deep Learning: Attacks, Countermeasures, and Opportunities". *IEEE Communications Magazine*, vol. 57, no. 11, pp. 116-122, Nov 2019.
- [J32] K. Fan, S. Wang, Y. Ren, **K. Yang**, Z. Yan, H. Li, and Y. Yang, "Blockchain-based Secure Time Protection Scheme in IoT". *IEEE Internet of Things Journal*, vol. 6, no. 3, pp. 4671-4679, June 2019.
- [J31] G. Xu, H. Li, Y. Dai, **K. Yang** and X. Lin, "Enabling Efficient and Geometric Range Query with Access Control Over Encrypted Spatial Data". *IEEE Transactions on Information Forensics and Security*, vol. 14, no. 4, pp. 870-885, April 2019.
- [J30] Z. Yang, **K. Yang**, L. Lei, K. Zheng and V. C. M. Leung, "Blockchain-based Decentralized Trust Management in Vehicular Networks". *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 1495-1505, April 2019. **(ESI Highly Cited Paper)**
- [J29] J. Shu, X. Liu, **K. Yang**, Y. Zhang, X. Jia, R. H. Deng, "SybSub: Privacy-Preserving Expressive Task Subscription With Sybil Detection in Crowdsourcing". *IEEE Internet Things Journal*, vol. 6, no. 2, pp. 3003-3013, 2019.

2018

- [J28] J. Shu, **K. Yang**, X. Jia, X. Liu, C. Wang, and D. Zheng, "Proxy-Free Privacy-Preserving Task Matching with Efficient Revocation in Crowdsourcing". *IEEE Transactions on Dependable and Secure Computing*, DOI: 10.1109/TDSC.2018.2875682, Oct. 2018.
- [J27] J. Shu, X. Jia, **K. Yang**, and H. Wang, "Privacy-Preserving Task Recommendation Services for Crowdsourcing". *IEEE Transactions on Services Computing*, DOI: 10.1109/TSC.2018.2791601, 2018
- [J26] Y. Zhang, R. H. Deng, J. Shu, **K. Yang**, and D. Zheng, "TKSE: Trustworthy Keyword Search Over Encrypted Data With Two-Side Verifiability via Blockchain". *IEEE Access*, vol. 6, pp. 31077 - 31087, 2018.
- [J25] J. Shu, X. Liu, X. Jia, **K. Yang**, and R. H. Deng, "Anonymous Privacy-Preserving Task Matching in

Crowdsourcing". *IEEE Internet of Things Journal*, vol. 5, no. 4, pp. 3068-3078, August 2018.

[J24] Y. Zhang, C. Xu, H. Li, **K. Yang**, J. Zhou and X. Lin, "HealthDep: An Efficient and Secure Deduplication Scheme for Cloud-Assisted eHealth Systems". *IEEE Transactions on Industrial Informatics*, vol. 14, no. 9, pp. 4101-4112, Sept. 2018.

[J23] H. Ren, H. Li, Y. Dai, **K. Yang**, and X. Lin, "Querying in Internet of Things with Privacy Preserving: Challenges, Solutions and Opportunities". *IEEE Network*, vol. 32, no. 6, pp. 144-151, 2018.

[J22] K. Zhang, X. Liang, J. Ni, **K. Yang**, and X. Shen. "Exploiting Social Network to Enhance Human-to-Human Infection Analysis Without Privacy Leakage". *IEEE Transactions on Dependable and Secure Computing*, vol. 15, no. 4, pp. 607-620, 2018.

[C21] J. Shu, X. Liu, **K. Yang**, Y. Zhang, X. Jia, and R. H. Deng. "SybMatch: Sybil Detection for Privacy-Preserving Task Matching in Crowdsourcing". In *Proc. of IEEE Global Telecommunications Conference (GLOBECOM'18)*, Abu Dhabi, United Arab Emirates, December 9-13, 2018.

[C20] **K. Yang**, J. Sunny, and L. Wang. "Blockchain-based Decentralized Public Key Management for Named-Data Networks (Invited Paper)". In *Proc. of The IEEE 27th International Conference on Computer Communications and Networks (ICCCN'18)*, Hangzhou, China, July 30 – August 2, 2018.

2017

[J21] P. Yang, N. Zhang, S. Zhang, **K. Yang**, L. Yu, and X. Shen. "Identifying the Most Valuable Workers in Fog-Assisted Spatial Crowdsourcing". *IEEE Internet of Things Journal*, vol. 4, no. 5, pp. 1193-1203, 2017.

[J20] Q. Xu, Z. Su, and **K. Yang**. "Optimal Control Theory Based Epidemic Information Spreading Scheme for Mobile Social Users with Energy Constraint". *IEEE Access*, vol. 5, pp. 14107-14118, 2017.

[J19] G. Xu, H. Li, C. Tan, D. Liu, Y. Dai and **K. Yang**. "Achieving efficient and privacy-preserving truth discovery in crowd sensing systems". *Computers & Security*, vol. 69, pp. 114-126, 2017.

[J18] **K. Yang**, K. Zhang, X. Jia, A. M. Hasan, and X. Shen. "Privacy-Preserving Attribute-Keyword Based Publish-Subscribe Service on Cloud Platforms". *Information Sciences*, vol. 387, pp. 116–131, 2017.

[J17] K. Zhang, J. Ni, **K. Yang**, X. Liang, and X. Shen. "Security and Privacy in Smart City Applications: Challenges and Solutions". *IEEE Communications Magazine*, vol. 55, no. 1, pp. 122-129, 2017. (ESI Highly Cited Paper)

[J16] X. Jin, N. Zhang, **K. Yang**, X. Shen, Z. Xu, C. Zhang, and Z. Jin. "PN Ranging Based on Noncommensurate Sampling: Zero-bias Mitigation Methods". *IEEE Trans. on Aerospace and Electronic Systems*, vol. 53, no. 2, pp. 926-940, 2017.

[J15] **K. Yang**, Q. Han, H. Li, K. Zheng, Z. Su and X. Shen. "An Efficient and Fine-grained Big Data Access Control Scheme with Privacy-preserving Policy". *IEEE Internet of Things Journal*, vol. 4, no. 2, pp. 536-571, 2017.

[C19] Z. Yang, K. Zheng, **K. Yang** and V. C.M. Leung. "A Blockchain-based Reputation System for Data Credibility Assessment in Vehicular Networks". In *Proc. of IEEE PIMRC 2017 Special Session SP-05 on "5G Wireless Technologies for V2X Communications"*, Montreal, QC, Canada, October 8-13, 2017.

[C18] G. Xu, Y. Ren, H. Li, D. Liu, Y. Dai and **K. Yang**. "CryptMDB: A Practical Encrypted MongoDB over Big Data". In *Proc. of International Conference on Communications (ICC'17)*, Paris, France, May 2017.

[C17] Q. Xu, Z. Su, Q. Zhao, J. Song, W. Shen, Y. Wang and **K. Yang**. "QoE Loss Probability Based Game-Theoretic Approach for Spectrum Sharing in Heterogeneous Networks". In *Proc. of International Conference on Communications (ICC'17)*, Paris, France, May 2017.

2016

[J14] J. Ren, Y. Zhang, Q. Ye, **K. Yang**, K. Zhang, and X. Shen. "Exploiting Secure Collaborative Spectrum Sensing for Cognitive Radio Sensor Networks". *IEEE Trans. on Wireless Communications*, vol. 15, no. 10, pp. 6813-6827, 2016.

[J13] L. Lei, Y. Kuang, **K. Yang**, J. Qiao, X. Shen and Z. Zhong. "Optimal Reliability in Energy Harvesting Industrial Wireless Sensor Networks". *IEEE Trans. on Wireless Communications*, vol. 15, no. 8, pp.5399-5413, 2016.

[J12] **K. Yang**, Z. Liu, X. Jia and X. Shen. "Time-domain Attribute-based Access Control for Cloud-based Video Content Sharing: A Cryptographic Approach". *IEEE Trans. on Multimedia*, vol. 18, no. 5, pp. 940-950, 2016.

- [J11] K. Zheng, Z. Yang, K. Zhang, P. Chatzimisios, W. Xiang and **K. Yang**. "Big Data Driven Optimization for Mobile Networks towards 5G". *IEEE Network*, vol. 30, no. 1, pp. 44-51, 2016. **(ESI Highly Cited Paper)**
- [J10] B. Zhang, X. Jia, **K. Yang** and R. Xie. "Design of Analytical Model and Algorithm for Optimal Roadside AP Placement in VANETs". *IEEE Trans. on Vehicular Technology*, vol. 65, no. 9, pp.7708-7718.
- [B2] **K. Yang**, X. Jia and X. Shen. "Privacy-preserving Data Access Control in the Smart Grid". *Cyber Security for Industrial Control Systems: from the viewpoint of close-loop*. Peng Cheng, Heng Zhang and Jiming Chen (Eds.), CRC, 2016.

2015

- [J9] **K. Yang**, K. Zhang, J. Ren and X. Shen. "Security and Privacy in Mobile Crowdsourcing Networks: Challenges and Opportunities". *IEEE Communications Magazine*. Vol 53, Issue 8, pp. 75-81, 2015.
- [J8] K. Zhang, **K. Yang**, X. Liang, Z. Su, X. Shen and H. H. Luo. "Security and Privacy for Mobile Healthcare Networks: From Quality-of-Service Perspective". *IEEE Wireless Communications*. Vol. 22, Issue 4, pp. 104-112, 2015.
- [J7] **K. Yang**, X. Jia and K. Ren. "Secure and Verifiable Policy Update Outsourcing for Big Data Access Control in the Cloud". *IEEE Trans. on Parallel and Distributed Systems*, vol. 26, no. 12, pp. 3461-3470, 2015.
- [J6] J. Wang, C. Huang, **K. Yang**, J. Wang, X. Wang and X. Chen. "MAVP-FE: Multi-authority vector policy functional encryption with efficient encryption and decryption". *China Communications*, vol. 12, no. 6, pp. 126-140, 2015.
- [C16] Z. Su, Q. Xu, K. Zhang, **K. Yang** and X. Shen. "Dynamic Bandwidth Allocation in Mobile Social Networks with Multiple Homing Access". In *Proc. of International Conference on Wireless Communications & Signal Processing (WCSP'15)*, Nanjing Jiangsu, China, Oct. 2015.
- [C15] K. He, C. Huang, **K. Yang** and J. Shi. "Identity-Preserving Public Auditing for Shared Cloud Data". In *Proc. of the 23rd IEEE International Symposium on Quality of Service (IWQoS'15)*, pp. 159-164, Portland, OR, USA, June 2015.
- [C14] K. Zhang, X. Liang, R. Ru, **K. Yang** and X. Shen. "Exploiting Mobile Social Behaviors for Sybil Detection". In *Proc. of the 34th IEEE International Conference on Computer Communications (INFOCOM'15)*, pp. 271-279, Hong Kong, April 2015.
- [C13] D. Wang, X. Jia, C. Wang, **K. Yang**, S. Fu and M. Xu. "Generalized Pattern Matching String Search on Encrypted Data in Cloud Systems". In *Proc. of the 34th IEEE International Conference on Computer Communications (INFOCOM'15)*, pp. 2101-2109, Hong Kong, April 2015.

2014

- [B1] **K. Yang** and X. Jia. "Security for Cloud Storage Systems". Springer Briefs in Computer Science, ISBN 978-1-4614-7872-0, pp. i-xi, 1-83, 2013. **(reviewed and recommended in ACM Computing Reviews in 2014)**
- [J5] **K. Yang** and X. Jia. "Expressive, Efficient and Revocable Data Access Control for Multi-Authority Cloud Storage". *IEEE Trans. on Parallel and Distributed Systems*, vol. 25, no. 7, pp. 1735-1744, 2014.
- [C12] **K. Yang**, X. Jia, K. Ren, R. Xie and L. Huang. "Enabling Efficient Access Control with Dynamic Policy Updating for Big Data in the Cloud". In *Proc. of the 33rd IEEE International Conference on Computer Communications (INFOCOM'14)*, pp. 2013-2021, Toronto, Canada, 2014.

2013

- [J4] **K. Yang**, X. Jia et al. "DAC-MACS: Effective Data Access Control for Multiauthority Cloud Storage Systems". *IEEE Trans. on Information Forensics and Security*, vol. 8, no. 11, pp 1790-1801, 2013.
- [J3] **K. Yang** and X. Jia. "An Efficient and Secure Dynamic Auditing Protocol for Data Storage in Cloud Computing". *IEEE Trans. on Parallel and Distributed Systems*, vol. 24, no. 9, pp 1717-1726, September 2013. **(ESI Highly Cited Paper)**
- [C11] **K. Yang**, X. Jia, K. Ren and B. Zhang. "DAC-MACS: Effective Data Access Control for Multi-Authority Cloud Storage Systems". In *Proc. of the 32nd IEEE International Conference on Computer Communications (INFOCOM'13)*, pp. 2995-3003, Turin, Italy, 2013.
- [C10] **K. Yang**, X. Jia and K. Ren. "Attribute-based Fine-Grained Access Control with Efficient Revocation in Cloud Storage Systems". In *Proc. of the 8th ACM Symposium on Information, Computer and Communications*

Security (AsiaCCS'13), pp. 523-528, Hangzhou, China, 2013.

[C9] B. Zhang, X. Jia, **K. Yang** and R. Xie. "Multi-path Routing and Stream Scheduling with Spatial Multiplexing and Interference Cancellation in MIMO Networks". In *Proc. of the 33rd International Conference on Distributed Computing Systems Workshops (ICDCS'13 Workshops)*, pp. 256-261, Philadelphia, USA, 2013.

[C8] R. Xie, X. Jia, **K. Yang** and B. Zhang. "Energy Saving Virtual Machine Allocation in Cloud Computing". In *Proc. of the 33rd International Conference on Distributed Computing Systems Workshops (ICDCS'13 Workshops)*, pp. 256-261, Philadelphia, USA, 2013.

2012

[J2] **K. Yang** and X. Jia. "Data Storage Auditing Service in Cloud Computing: Challenges, Methods and Opportunities". *World Wide Web*, vol. 15, no. 4, pp 409-428, July 2012. (Notable Paper in Computing Reviews Best of 2012)

[C7] **K. Yang** and X. Jia. "Attributed-based Access Control for Multi-authority Systems in Cloud Storage". In *Proc. of the 32nd International Conference on Distributed Computing Systems (ICDCS'12)*, pp. 536-545, Macau, 2012.

2010

[C6] **K. Yang**, X. Jia, B. Zhang and Z. Zheng. "Threshold Key Redistribution for Dynamic Change of Authentication Group in Wireless Mesh Networks". In *Proc. of IEEE Global Telecommunications Conference (GLOBECOM'10)*, pp. 1-5, Miami, FL, 2010.

[C5] B. Zhang, Z. Zheng, X. Jia and **K. Yang**. "A Distributed Collaborative Relay Protocol for Multi-hop WLAN". In *Proc. of IEEE Global Telecommunications Conference (GLOBECOM'10)*, pp. 1-5, Miami, FL, 2010.

[C4] Z. Zheng, B. Zhang, X. Jia, J. Zhang and **K. Yang**. "Minimum AP Placement for WLAN Adaptation using Physical Interference Model". In *Proc. of IEEE Global Telecommunications Conference (GLOBECOM'10)*, pp. 1-5, Miami, FL, 2010.

Before 2009 (My Undergraduate Work)

[J1] **K. Yang**, L. Huang, W. Yang and F. Song. "Quantum Teleportation via GHZ-like State". *International Journal of Theoretical Physics*. vol. 48, no. 2, pp 516-521, February 2009.

[C3] Y. Wang, **K. Yang**, L. Huang and X. Fu, "Level Control Maintenance of Temporal Consistency in Wireless Sensor Networks". In *Proc. of Intl. Conf. on Power Electronic and Intelligent Transportation System*, pp. 295-300, 2009.

[C2] F. Song, L. Huang, W. Yang and **K. Yang**. "Building QKD Networks Based On a Novel QKD Scheme". In *Proc. of 2008 IEEE International Conference on Networking, Sensing and Control*, pp.596-601, 2008.

[C1] **K. Yang**, L. Huang and W. Yang. "Quantum User Authentication with Nonentangled-based QKD Protocol". In *Proc. of 2007 International Conference on Convergence Information Technology (ICCIT'07)*, pp.1969-1973, 2007.