Fangwei Ye

CONTACT INFORMATION

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EDUCATION

2013 - 2018 Ph.D., Information Engineering
The Chinese University of Hong Kong, Shatin, N.T., Hong Kong
Thesis Title: Fundamental Limits of Secure Exact-repair Regenerating Codes
Thesis Advisor: Prof. Raymond W. Yeung

2009 - 2013 B.S., Information Science and Engineering
Chien-Shiung Wu Honor (Honored) College
Southeast University, Nanjing, Jiangsu, China

RESEARCH INTERESTS

Information-theoretic privacy and security, network coding, storage codes

WORK EXPERIENCE

Oct. 2018 - Now	Postdoctoral Associate Electrical and Computer Engineering Department Rutgers University Advisor: Prof. Salim El Rouayheb
Sept. 2018 - Oct. 2018	Research Assistant Institute of Network Coding The Chinese University of Hong Kong
Mar. 2016 - Aug. 2016	Student Intern Alcatel-Lucent Bell Labs France Centre de Villarceaux, 91300 Massey, France Research subject: Method of Distributed Storage Systems for BigData Applications & Cloud Service
Aug. 2012 - Jun. 2013	Research Assistant National Mobile Communications Research Lab Southeast University, Nanjing, China Research subject: LDPC codes and rateless codes

TEACHING EXPERIENCE

2013 - 2017	Teaching Assistant Department of Information Engineering, The Chinese University of Hong Kong Courses: Information and Software Engineering Practice; Probability and Statistics for Engineers; Complex Numbers, Differential Equations, and Discrete Mathematics for Engineers
Spring 2015	Teaching Assistant Information Theory, Coursera

INVITED PRESENTATIONS

1. F. Ye, "Some Progress on Network Coding for Storage Codes," National Mobile Communications Research Lab., Southeast University, Nanjing, China, Dec 25, 2017.
2. F. Ye, "On a Simple Characterization of Secure Exact-repair Regenerating Codes," Information Theory and Applications Workshop (ITA), San Diego, CA, Feb. 2018 (poster presentation).

PUBLICATIONS

Journal Papers

1. F. Ye, K. W. Shum, and R. W. Yeung, "The rate region for secure distributed storage systems," *IEEE Trans. Inf. Theory*, vol. 63, no. 11, pp. 7038–7051, Nov. 2017.
2. F. Ye, S. Liu, K. W. Shum, and R. W. Yeung, "On Secure Exact-repair Regenerating Codes with a Single Pareto Optimal Point," *IEEE Trans. Inf. Theory*, vol. 66, no. 1, pp. 176–201, Jan. 2020.

Conference Papers

1. F. Ye, K. W. Shum, and R. W. Yeung, "The rate region of secure exact-repair regenerating codes for 5 nodes," in *Proc. IEEE Int. Symp. Inf. Theory*, Barcelona, 2016.
2. C. Li, F. Ye, X. Guang, Z. Zhou, C. W. Tan, and R. W. Yeung, "On Independent Distributed Source Coding Problems with Exact Repair," in *Proc. IEEE Inf. Theory Workshop (ITW)*, Kaohsiung, Taiwan, 2017.
3. F. Ye, S. Liu, K. W. Shum, and R. W. Yeung, "On a Simple Characterization of Secure Exact-repair Regenerating Codes," in *Proc. IEEE Int. Symp. Inf. Theory*, Vail, CO, USA, 2018.
4. H. Jeong, F. Ye, and P. Grover, "Locally Recoverable Coded Matrix Multiplication," Allerton, Monticello, IL, USA, 2018.
5. C. Naim, F. Ye, and S. El Rouayheb, "ON-OFF Privacy with Correlated Requests," in *Proc. IEEE Int. Symp. Inf. Theory*, Paris, France, 2019.
6. F. Ye, C. Naim, and S. El Rouayheb, "Preserving ON-OFF Privacy for Past and Future Requests," in *Proc. IEEE Inf. Theory Workshop (ITW)*, Visby, Gotland, 2019.

SERVICES

Reviewer

- IEEE Transactions on Information Theory
- Transactions on Emerging Telecommunications Technologies
- IEEE International Symposium on Information Theory
- IEEE International Workshop on Computer Aided Modelling and Design of Communication Links and Networks