Taejoong Chung

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09/2009-02/2015 Ph.D., Computer Science and Engineering, Seoul National University, Seoul, Korea.

- Thesis: "Analytic Approach of Understanding Crowd Phenomena on the Internet: Case Studies of MMORPG and BitTorrent"
- O Supervisors: Prof. Yanghee Choi and Prof. Ted "Taekyoung" Kwon

03/2005-09/2009

B.S., Computer Science and Enginnering, POSTECH (Pohang University of Science and Technology), Pohang, Korea.

Professional Experiences

08/2018-present Assistant Professor, B. Thomas Golisano College of Computing and Information Sciences, Rochester Institute of Technology (RIT), Rochester, NY, United States.

09/2015-08/2018 Postdoctoral Researcher, Northeastern University, Boston, MA, United States.

Postdoctoral Researcher, Seoul National University, Seoul, Korea. 03/2015-02/2016

06/2013-03/2014 Research Intern, Cisco Systems, Cambridge, MA, United States.

08/2011-02/2015 Research Assistant, Seoul National University, Seoul, Korea.

09/2010-12/2010 Teaching Assistant, Seoul National University, Seoul, Korea.

Engineering Math II (400.002A, Fall 2010)

03/2010–06/2010 **Teaching Assistant**, Seoul National University, Seoul, Korea.

Engineering Math I (400.001A, Spring 2010)

Honors and Awards

- Distinguished Paper Award, USENIX Security'17 2017
- Microsoft Azure Research "Award Program: Microsoft Azure for Research Supports \$20,000" 2015
- 2010 Best Paper Award, Korea Information and Communication Society (KICS)
- 2010 Best Paper Award, IEEE Communication Society Seoul Chapter

Grants

- 2015 Personal Recommendation System and Privacy Protection through Big Data Analysis on Online Social Networks
 - o (PI) Research Grant of Basic Science Research Program by National Research Foundation of Korea (NRF) funded by the Ministry of Education (2015018668)

Refereed Conference Publications

NDSS'19 maTLS: How to Make TLS middlebox-aware?

Hyunwoo Lee, Zachary Smith, Junghwan Lim, Gyeongjae Choi, Selin Chun, T. Chung, and Ted "Taekyoung" Kwon

NDSS, San Diego, USA, Feb. 2019

IMC'18 Is the Web Ready for OCSP Must Staple?

T. Chung, Jay Lok, Balakrishnan Chandrasekaran, David Choffnes, Dave Levin, Bruce M. Maggs, Alan Mislove, John Rula, Nick Sullivan, and Christo Wilson

IMC, Boston, USA, Nov. 2018

CSCW'18 Privacy Leakage in Event-based Social Networks: A Meetup Case Study

T. Chung, J. Han, D. Choi, T. Kwon, J. Rha, and H. Kim CSCW, Jersey City, USA, Nov. 2018

IMC'17 Understanding the Role of Registrars in DNSSEC Deployment

T. Chung, R. van Rijswijk-Deij, D. Choffnes, A. Mislove, C. Wilson, D. Levin, and B. M. Maggs IMC, London, UK, Nov. 2017

USENIX Security'17 A Longitudinal, End-to-End View of the DNSSEC Ecosystem

T. Chung, R. van Rijswijk-Deij, B. Chandrasekaran, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, and C. Wilson

USENIX Security, Vancouver, Canada, Aug. 2017

IMC'16 Measuring and Applying Invalid SSL Certificates: The Silent Majority

T. Chung, Y. Liu, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, and C. Wilson IMC, Santa Monica, CA, USA, Nov. 2016

IMC'16 Tunneling for Transparency: A Large-Scale Analysis of End-to-End Violations in the Internet

T. Chung, D. Choffnes, and A. Mislove IMC, Santa Monica, CA, USA, Nov. 2016

CCS'16 Measurement and Analysis of Private Key Sharing in the HTTPS Ecosystem

F. Cangialosi, T. Chung, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, and C. Wilson CCS, Vienna, Austria, Oct. 2016

COSN'15 Characterizing Conversation Patterns in Reddit: From the Perspectives of Content Properties and User Participation Behaviors

D. Choi, J. Han, T. Chung, Y. Ahn, B. Chun, and T. Kwon COSN, Stanford, CA, USA, Nov. 2015

COSN'15 Sharing Topics in Pinterest: Understanding Content Creation and Diffusion Behaviors

J. Han, D. Choi, A. Choi, T. Chung, T. Kwon, J. Rha, and C. Chuah COSN, Stanford, CA, USA, Nov. 2015

ANCS'14 CoRC: Coordinated Routing and Caching for Named Data Networking

H. Choi, J. Yoo, T. Chung, N. Choi, T. Kwon, and Y. Choi ANCS, Marina del Rey, CA, USA, Oct. 2014

WWW'14 Unveiling Group Characteristics in Online Social Games: A Socio-Economic Analysis

T. Chung, J. Han, D. Choi, T. Kwon, H. K. Kim and Y. Choi WWW, Seoul, Korea, Apr. 2014

IFIP Networking'13 Spatial and Temporal Locality of Content in BitTorrent: A Measurement Study

T. Chung, J. Han, H. Lee, J. Kangasharju, T. Kwon, and Y. Choi IFIP Networking, Brooklyn, NY, USA, May 2013

SIGMETRICS'12 Bundling Practice in Bittorrent: What, How, and Why

J. Han, S. Kim, T. Chung, T. Kwon, H. Kim, and Y. Choi SIGMETRICS, London, UK, Jun. 2012

IFIP Networking'12 Content Publishing and Downloading Practice in BitTorrent

S. Kim, J. Han, T. Chung, T. Kwon, H. Kim, and Y. Choi IFIP Networking, Prague, Czech, May 2012

GLOBECOM'12 Bandwidth Allocation for BitTorrent under Multi-Torrent Environments

J. Choi, J. Han, T. Chung, E. Cho, T. Kwon, and Y. Choi GLOBECOM, Houston, Texas, United States, Dec. 2011

Journal Publications

A First Look at Certification Authority Authorization (CAA)

Quirin Scheitle, T. Chung, Jens Hiller, Oliver Gasser, Johannes Naab, Roland van Rijswijk-Deij, Oliver Hohlfeld, Ralph Holz, Dave Choffnes, Alan Mislove, and Georg Carle

ACM SIGCOMM Computer Communications Review (CCR), Vol. 48, pp. 2, Apr. 2018

An End-to-End View of DNSSEC Ecosystem Management

T. Chung, R. van Rijswijk-Deij, B. Chandrasekaran, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, and C. Wilson

USENIX Magazine ;login:, Vol. 42, No. 4, Dec. 2017

A Target-centric Surveillance System based on Localization and Social Networking

J. Han, N. Choi, T. Chung, T. Kwon, and Y. Choi Multimedia Tools and Applications (MTAP), Vol. 73, Issue 1, pp. 241-265, Nov. 2014

Strategic Bundling for Content Availability and Fast Distribution in BitTorrent

J. Han, T. Chung, S. Kim, H. Kim, J. Kangasharju, T. Kwon, and Y. Choi Computer Communication (COMCOM), Vol. 43, pp. 64-73, May 2014

Bundling Practice in Bittorrent: What, How, and Why

J. Han, S. Kim, T. Chung, T. Kwon, H. Kim, and Y. Choi

ACM SIGMETRICS Performance Evaluation Review, Vol. 40, No. 1, pp. 77-88, Jun. 2012.

How Prevalent is Content Bundling in BitTorrent?

J. Han, T. Chung, S. Kim, T. Kwon, H. Kim, and Y. Choi ACM SIGMETRICS Performance Evaluation Review, Vol. 39, No. 1, pp. 319-320, Jun. 2011.

Posters

SIGCOMM'17 The Root Canary: Monitoring and Measuring the DNSSEC Root Key Rollover

R. van Rijswijk-Deij, T. Chung, D. Choffnes, A. Mislove, and W. Toorop SIGCOMM, Los Angeles, CA, USA, Aug. 2017

ACNS'14 Toward Terabyte-scale Caching with SSD in a Named Data Networking Router

W. So, T. Chung, H. Yuan, D. Oran, and M. Stapp ANCS, Marina del Rey, CA, USA, Oct. 2014

PAM'13 Spatial and Temporal Locality of Swarm Dynamics in BitTorrent

T. Chung, J. Han, H. Lee, J. Kangasharju, T. Kwon, and Y. Choi PAM, Hong Kong, March. 2013.

Non-Refereed Conference Publications

TPRC'17 Investigating End-To-End Integrity Violations in Internet Traffic

A. Mislove, D. Choffnes, and T. Chung TPRC, Arlington, VA, USA, Sept. 2017

Fellowships

2012-2016 Samsung Ph.D. Industrial Scholarship.

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Summer 2007 POSTECH Student Exchange Program to UCLA.

2005-2008 National Science & Technology Scholarship, KOSAF(Korea Student Aid Foundation).

Project Experience

06/2015-06/2016 Personal Recommendation System and Privacy Protection through Big Data Analysis on

Online Social Networks
National Research Foundation of Korea (NRF)

09/2012-06/2013 Networking Content Delivery Optimization

SAMSUNG Electronics

03/2011-02/2014 Fundamental Research on In-network Caching and Routing for Named-data Networking

Korea Communications Agency (KCA)

07/2010-12/2012 Future Internet Service Demonstration: Internet Video Diary

Korea Internet & Security Agency (KISA), Korea

Service

Program Committee Member.

- '14 Poster Selection Committee of ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS)
- '17 Program Committee of International AAAI Conference on Web and Social Media (ICWSM)
- '17 Program Committee of IEEE International Conference on Ubiquitous Computing and Communications (IUCC)
- '18 Program Committee of International AAAI Conference on Web and Social Media (ICWSM) Shadow Program Committee Member.
- '17 ACM Internet Measurement Conference (IMC)

11/16/2016 ACM Internet Measurement Conference (IMC)

Talks

| 11/05/2018 | ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) | |
|------------|--|--|
| 11/01/2018 | ACM Internet Measurement Conference (IMC) | |
| 09/14/2018 | Great Lakes Security Day (GLSD) | |
| 06/29/2018 | Sonos at Boston | |
| 05/30/2018 | Graduate School of Information Security at Korea University | |
| 03/21/2018 | Department of Computer Science and Engineering at Washington University in St. Louis (WUSTL) | |
| 02/28/2018 | Department of Computer Science at Rochester Institute of Technology (RIT) | |
| 11/02/2017 | ACM Internet Measurement Conference (IMC) | |
| 09/29/2017 | New England Security Day (NESD) | |
| 09/08/2017 | Research Conference on Communications, Information and Internet Policy (TPRC) | |
| 08/18/2017 | USENIX Security | |

11/15/2016 ACM Internet Measurement Conference (IMC)
10/07/2016 New England Networking and Systems Day (NENS)
12/29/2014 Korea Advanced Institute of Science and Technology (KAIST)
04/10/2014 World Wide Web Conference (WWW)
05/22/2013 IFIP Networking
12/07/2011 IEEE GLOBECOM

References

Alan Mislove (amislove@ccs.neu.edu)

Associate Professor of Computer Science, Northeastern University, USA

Bruce M. Maggs (bmm@cs.cmu.edu)

Professor of Computer Science, Duke University and Vice President of Research, Akamai Technologies, USA

Dave Levin (dml@cs.umd.edu)

Assistant Professor of Computer Science, University of Maryland, USA

David Choffnes (choffnes@ccs.neu.edu)

Assistant Professor of Computer Science, Northeastern University, USA

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Former fellow at Cisco Systems, USA

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