

# Taejoong (Tijay) Chung

Assistant Professor (tijay@vt.edu, <https://taejoong.github.io>)

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## Education

- 09/2009–02/2015 **Ph.D.**, Computer Science and Engineering, Seoul National University, Seoul, Korea.  
◦ Supervisors: Prof. Yanghee Choi and Prof. Ted “Taekyoung” Kwon
- 03/2005–09/2009 **B.S.**, Computer Science and Engineering, POSTECH (Pohang University of Science and Technology), Pohang, Korea.

## Professional Experience

- 08/2020–present **Assistant Professor**, Department of Computer Science, Virginia Tech, Blacksburg, VA, United States.
- 02/2023–present **Adjunct Professor**, Department of Computer Science, POSTECH, Pohang, South Korea.
- 08/2018–07/2020 **Assistant Professor**, Department of Computer Science, Rochester Institute of Technology (RIT), Rochester, NY, United States.
- 09/2015–08/2018 **Postdoctoral Researcher**, Northeastern University, Boston, MA, United States.

## Honors and Awards

- 2024 NSF CAREER Award
- 2024 Outstanding New Assistant Professor Award at the College of Engineering, Virginia Tech
- 2023 Mutually Agreed Norms for Routing Security (MANRS) Mentor
- 2023 College of Engineering Dean’s Memorandum for Outstanding Teaching Evaluations
- 2022 Best Paper Honorable Mention Award, ACM CCS’22
- 2022 Mutually Agreed Norms for Routing Security (MANRS) Research Fellow
- 2019 Distinguished Paper Award, ACM IMC’19
- 2019 Applied Networking Research Prize (ANRP), IETF’105
- 2019 NSF CRII Award
- 2017 Distinguished Paper Award, USENIX Security’17
- 2015 Microsoft Azure Research “Award Program: Microsoft Azure for Research Supports \$20,000”

## Grants

- 2024 Leveraging ML for Advanced IRR Validation: Towards a More Secure Internet Infrastructure  
◦ Comcast Innovation Fund, 08/2024 – 07/2025, Sole Primary Investigator, \$30,000
- 2024 CAREER: Securing and Evolving Internet Security Protocols for Naming and Routing  
◦ National Science Foundation. CNS-2339378, 05/2024 – 04/2029. Sole Primary Investigator \$691,258 (VT), \$691,258 (total)
- 2023 RoVISTA: Understanding the Current Validation Status of RPKI  
◦ Google, Unrestricted Gift. 08/2023. Sole Primary Investigator \$30,000 (VT)
- 2023 IMR: MT: Tools for Measuring Route Origin Validation in Resource Public Key Infrastructure (RPKI) at Scale  
◦ National Science Foundation. CNS-2323137, 12/2023 – 11/2025. Sole Primary Investigator \$599,997 (VT), \$599,997 (total)
- 2023 SaTC: CORE: Medium: Cryptographic accumulators and revocation of credentials

- National Science Foundation. CNS-2247306, 01/2023 – 01/2025. Primary Investigator, joint with Foteini Baldimtsi (GMU), Anna Lysyanskaya (Brown), Charalampos Papamanthou (Yale), Alan Mislove (NEU). \$240,000 (VT), \$1,200,000 (total)
- 2023 A Study on Key Management Structure for Multi-Metaverse Avatar Authentication and Anonymization Assurance
  - Ministry of Science and ICT, 01/2023 – 01/2026, Primary Investigator, \$225,000 (VT), \$163 M (total)
- 2022 Towards a complete view of Route Origin Validation in RPKI
  - Comcast Innovation Fund, 06/2022 – 05/2023, Sole Primary Investigator, \$75,000
- 2022 Rapidly Bootstrapping Implementation of DNS-Based Security Extensions with AI-driven Approach
  - 4-VA, 06/2022 – 05/2023, Sole Primary Investigator, \$25,000
- 2022 Improving Routing Security with a Complete View of Routing Origin Validation (ROV) in RPKI
  - Commonwealth Cyber Initiative, 05/2022 – 08/2022, Sole Primary Investigator, \$15,000
- 2021 Enhancing the Privacy and Reliability of Massive-scale Bluetooth Low Energy Contact Tracing
  - Commonwealth Cyber Initiative, 06/2021 – 05/2022. Co-Primary Investigator, joint with Daphne Yao (VT), Carol Fung (VCU) \$100,000 (VT), \$150,000 (total)
- 2019 CNS Core: Large: Collaborative Research: Towards an Evolvable Public Key Infrastructure
  - National Science Foundation. CNS-1901090, 06/2019 – 05/2022. Primary Investigator, joint with Dave Levin (UMD), Bruce M. Maggs (Duke University), Alan Mislove (NEU), Christo Wilson (NEU), Bryan Parno (CMU). \$300,000 (VT), \$2,000,000 (total)
- 2019 CRII: SaTC: Measuring and Improving the Management of Resource Public Key Infrastructure (RPKI)
  - National Science Foundation. CNS-1850465, 10/2019 – 09/2021. Sole Primary Investigator. \$166,561
- 2015 Personal Recommendation System and Privacy Protection through Big Data Analysis on Online Social Networks
  - National Research Foundation of Korea (NRF). NRF-2016018668, 03/2015 – 02/2016. Sole Primary Investigator. ₩50,000,000 (≈ \$44,000)

## Refereed Conference Publications

- USENIX ATC'24 **mmTLS: Scaling the Performance of Encrypted Network Traffic Inspection**  
J. Yoon, S. Do, D. Kim, **T. Chung**, and K. Park  
USENIX Annual Technical Conference, Santa Clara, United States, July 2024
- USENIX Security'24 **SPF Beyond the Standard: Management and Operational Challenges in Practice and Practical Recommendations**  
Md. Ishtiaq Ashiq, W. Li, T. Fiebig, and **T. Chung**  
USENIX Security, Philadelphia, United States, August 2024
- Oakland'24 **An Analysis of Recent Advances in Deepfake Image Detection in an Evolving Threat Landscape**  
S. Muhammad Abdullah, A. Cheruvu, S. Kanchi, **T. Chung**, P. Gao, M. Jadliwala, and B. Viswanath  
IEEE Symposium on Security and Privacy, San Francisco, United States, May 2024
- NDSS'24 **IRRedicator: Pruning IRR with RPKI-Valid BGP Insights**  
M. Kang, W. Li, R. van Rijswijk-Deij, T. Kown, and **T. Chung**  
NDSS, San Diego, USA, Feb. 2024
- HotNets'23 **No Root Store Left Behind**  
J. Larisch, W. Aqeel, **T. Chung**, E. Kohler, D. Levin, B. Maggs, B. Parno, and C. Wilson  
ACM HotNets, Cambridge, USA, December 2023
- ACSAC'23 **Delegation of TLS Authentication to CDNs using Revocable Delegated Credentials**  
D. Yoon, **T. Chung**, and Y. Kim  
ACSAC, Austin, United States, Canada, December 2023

- IMC'23 **RoVista: Measuring and Understanding the Route Origin Validation (ROV) in RPKI**  
W. Li, Z. Lin, Md. Ishtiaq Ashiq, E. Aben, R. Fontugne, A. Phokeer, and T. Chung  
ACM IMC, Montreal, Canada, October 2023
- USENIX Security'23 **You've Got Report: Measurement and Security Implications of DMARC Reporting**  
Md. Ishtiaq Ashiq, W. Li, T. Fiebig, and T. Chung  
USENIX Security, Anaheim, United States, August 2023
- PAM'23 **Exploring the Evolution of the TLS Certificate Ecosystem**  
S. Farhan and T. Chung  
PAM, Virtual, March 2023
- PAM'23 **Measuring TTL Violation of DNS Resolvers in the Wild**  
P. Bhowmick, Md. Ishtiaq Ashiq, C. Deccio, and T. Chung  
PAM, Virtual, March 2023
- IMC'22 **A Comparative Analysis of Certificate Pinning in Android & iOS**  
A. Pradeep, M. Talha Paracha, P. Bhowmick, A. Davanian, A. Razaghpanah, T. Chung, M. Lindorfer, N. Vallina-Rodriguez, D. Levin, and D. Choffnes  
ACM IMC, Nice, France, October 2022
- CCS'22 **Hammurabi: A Framework for Pluggable, Logic-based X.509 Certificate Validation Policies**  
J. Larisch, W. Aqeel, C. Wilson, A. Mislove, T. Chung, D. Levin, B. Parno, and B. Maggs  
ACM CCS, Los Angeles, CA, USA, Nov 2022
- USENIX Security'22 **Under the hood of DANE mismanagement in SMTP**  
H. Lee, Md. Ishtiaq Ashiq, M. Muller, R. van Rijswijk-Deij, T. Kwon, T. Chung  
USENIX Security, Boston, United States, August 2022
- SIGCOMM'21 **IP Unbound: Robust, Responsive CDN-scale service without CDN-Scale Addresses**  
M. Fayed, V. Giotsas, L. Bauer, S. Kerola, M. Majkowski, P. Odintsov, J. Sitnicki, T. Chung, D. Levin, A. Mislove, N. Sullivan, C. Wood  
ACM SIGCOMM, Virtual Conference, Aug. 2021
- PAM'21 **Measurement and Analysis of Automated Certificate Reissuance**  
O. Omolola, R. Roberts, I. Ashiq, T. Chung, D. Levin, and A. Mislove  
PAM, Virtual Conference, Mar. 2021
- IMC'20 **The Reality of Algorithm Agility: Studying the DNSSEC Algorithm Life-Cycle**  
M. Mueller, W. Toorop, T. Chung, J. Janssen, and R. van Rijswijk-Deij  
IMC, Pittsburgh, United States, Oct. 2020
- FCS'20 **Assertion-Carrying Certificates**  
W. Aqeel, Z. Hanif, J. Larisch, O. Omolola, T. Chung, D. Levin, B. Maggs, A. Mislove, B. Parno, and C. Wilson  
Workshop on Foundations of Computer Security, Boston, United States, June 2020
- USENIX Security'20 **A Longitudinal and Comprehensive Study of the DANE Ecosystem in Email**  
H. Lee, A. Gireesh, R. van Rijswijk-Deij, T. Kwon, T. Chung  
USENIX Security, Boston, United States, August 2020
- CCS'19 **You Are Who You Appear to Be: A Longitudinal Study of Domain Impersonation in TLS Certificates**  
R. Roberts, Y. Goldschlag, R. Walter, T. Chung, A. Mislove, D. Levin  
ACM CCS, London, United Kingdom, Nov. 2019
- IMC'19 **RPKI is Coming of Age: A Longitudinal Study of RPKI Deployment and Invalid Route Origins**  
T. Chung, E. Aben, T. Bruijnzeels, B. Chandrasekaran, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, R. van Rijswijk-Deij, J. P. Rula, and N. Sullivan  
ACM IMC, Amsterdam, The Netherlands, Oct. 2019
- IMC'19 **Roll, Roll, Roll your Root: A Comprehensive Analysis of the First Ever DNSSEC Root KSK Rollover**  
M. Müller, M. Thomas, D. Wessels, W. Hardaker, T. Chung, W. Toorop, and R. van Rijswijk-Deij  
ACM IMC, Amsterdam, The Netherlands, Oct. 2019

- NDSS'19 **maTLS: How to Make TLS middlebox-aware?**  
H. Lee, Z. Smith, J. Lim, G. Choi, S. Chun, **T. Chung**, and T. Kwon  
NDSS, San Diego, USA, Feb. 2019
- IMC'18 **Is the Web Ready for OCSP Must Staple?**  
**T. Chung**, J. Lok, B. Chandrasekaran, D. Choffnes, D. Levin, B. M. Maggs, A. Mislove, J. Rula, N. Sullivan, and C. Wilson  
ACM 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  
ACM 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  
ACM 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  
ACM 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  
ACM 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  
ACM 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  
ACM 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  
ACM 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  
IEEE 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  
ISOC 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  
ACM 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  
IEEE GLOBECOM, Houston, Texas, United States, Dec. 2011

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## Journal Publications

### Privacy Guarantees of BLE Contact Tracing: A Case Study on COVIDWISE.

Salman Ahmed, Ya Xiao, T. Chung, Carol Fung, Moti Yung, and Danfeng (Daphne) Yao.  
IEEE Computer Society, 2021

### Rolling with Confidence: Managing the Complexity of DNSSEC Operations

Moritz Muller, T. Chung, Alan Mislove, and Roland van Rijswijk-Deij  
IEEE Transactions on Network and Service Management (IEEE TNSM), 2019

### Predicting Content Consumption from Content-to-Content Relationships

Jinyoung Han, Daejin Choi, T. Chung, Chen-Nee Chuah, Hyun-chul Kim, and Ted "Taekyoung" Kwon  
Elsevier Journal of Network and Computer Applications (JNCA), Vol. 132, pp. 1, April 2019

### 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.

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## Posters

### IMC'19 Tracking Registrar Support for DNSSEC: It's Slowly Getting Better

Spencer Roth, R. van Rijswijk-Deij, and T. Chung  
IMC, Amsterdam, The Netherlands, USA, Aug. 2017

### 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.

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## 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

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## Teaching

F20, F23 **CS 6204**, Public Key Infrastructure and Network Security.  
F22, F23 **CS 5584**, Network Security.  
S24 **CS/ECE 5560**, Fundamentals of Information Security.  
S21, S22 **CS 4264**, Principles of Computer Security.  
F18, F19 **CSCI 351**, Data Communication and Networks.

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## Advising

01/2024 – Present **Hoang Tran**, Ph.D. Students, Virginia Tech.  
08/2023 – Present **Munshi Rejwan Ala Muid**, Ph.D. Students, Virginia Tech, Co-advised with Thang Hoang.  
01/2021 – Present **Mohammad Ishtiaq Ashiq Khan**, Ph.D. Students, Virginia Tech.  
01/2021 – Present **Weitong Li**, Ph.D. Students, Virginia Tech.  
01/2021 – 11/2023 **Protick Bhowmick**, Masters, Virginia Tech, now at Yale University.  
08/2020 – 08/2022 **Syed Muhammad Farhan**, Masters, Virginia Tech, now at Amazon.

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## Ph.D. Committees

Spring 2024 **Zhongdong Liu**, Virginia Tech.  
Spring 2024 **Miles Frantz**, Virginia Tech.  
Spring 2024 **Muhammad Talha Paracha**, Northeastern University.  
Spring 2023 **Tung Dao**, Virginia Tech.  
Fall 2022 **Jiameng Pu**, Virginia Tech.

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## Service

### Award Committee Member.

'24 IETF/IRTF Applied Networking Research Prize (ANRP)  
'23 IETF/IRTF Applied Networking Research Prize (ANRP)  
'22 IETF/IRTF Applied Networking Research Prize (ANRP)  
'21 IETF/IRTF Applied Networking Research Prize (ANRP)  
'21 ACM Student Research Competition (SRS) for SIGCOMM poster and demo session

### General Chair.

'22 The ACM/IRTF Applied Networking Research Workshop (ANRW)

### Steering Committee Member.

'23 The ACM/IRTF Applied Networking Research Workshop (ANRW)

### Program Committee Member.

'24 The ACM/IRTF Applied Networking Research Workshop (ANRW)  
'24 The DNS Operations, Analysis, and Research Center (DNS-OARC)  
'24 ACM Internet Measurement Conference (IMC)  
'24 ACM Conference on emerging Networking EXperiments and Technologies (CoNEXT)  
'24 The Passive and Active Measurement (PAM)

- '23 ACM Asian Conference on Internet Engineering (AINTEC)
- '23 IEEE SecWeb
- '23 IEEE MetaCom Workshop
- '23 The Passive and Active Measurement (PAM)
- '23 ACM Conference on SIGMETRICS/Performance
- '23 IEEE Symposium on Security and Privacy (Oakland)
- '22 ACM Conference on emerging Networking EXperiments and Technologies (CoNEXT)
- '22 ACM Internet Measurement Conference (IMC)
- '22 IEEE International Conference on Network Protocols (ICNP)
- '22 The Passive and Active Measurement (PAM)
- '22 ACM Conference on SIGMETRICS/Performance
- '21 ACM Conference on Computer and Communications Security (CCS) – External reviewer
- '21 The ACM/IRTF Applied Networking Research Workshop (ANRW)
- '21 ACM Internet Measurement Conference (IMC)
- '21 IEEE International Conference on Network Protocols (ICNP)
- '21 The Passive and Active Measurement (PAM)
- '20 The ACM/IRTF Applied Networking Research Workshop (ANRW)
- '20 The Network Traffic Measurement and Analysis Conference (TMA)
- '20 The Passive and Active Measurement (PAM)
- '19 ACM Internet Measurement Conference (IMC)
- '19 International Conference on Social Informatics (SocInfo)
- '19 The Passive and Active Measurement (PAM)
- '19 International AAAI Conference on Web and Social Media (ICWSM)
- '18 International AAAI Conference on Web and Social Media (ICWSM)
- '17 International AAAI Conference on Web and Social Media (ICWSM)
- '17 IEEE International Conference on Ubiquitous Computing and Communications (IUCC)
- '14 Poster Selection Committee of ACM/IEEE Symposium on Architectures for Networking and Communications Systems (ANCS)
- Shadow Program Committee Member.**
- '18 ACM Internet Measurement Conference (IMC)
- '17 ACM Internet Measurement Conference (IMC)
- Artifact Evaluation Member.**
- '20 International Conference on emerging Networking EXperiments and Technologies (CoNEXT)
- Web Chair.**
- '22 ACM SIGCOMM
- '21 ACM SIGCOMM
- '21 ACM Internet Measurement Conference (PAM)
- '19 ACM Internet Measurement Conference (IMC)
- Travel Grant Chair.**
- '22 ACM Internet Measurement Conference (IMC)
- Registration Chair.**
- '18 ACM Internet Measurement Conference (IMC)
- Journal Reviewer.**
- '24 Journal of Cybersecurity

- '23 Journal of Law and Legislation (KJLL)
- '23 ACM Transactions on Privacy and Security
- '23 ACM Computing Surveys
- '22 IEEE Transactions on Dependable and Secure Computing
- '21 Elsevier Computers & Security
- '21 IEEE/ACM Transactions on Networking
- '20 ACM Computer Communication Review
- '19 IEEE Transactions on Dependable and Secure Computing
- '19 IEEE/ACM Transactions on Networking
- '19 ACM Transactions on Privacy and Security
- '19 ACM Computer Communication Review
- '16 ACM Computer Communication Review
- Proposal Reviewer.**
- '21 The Commonwealth Cyber Initiative (CCI): NextG  
**Internal and Other Service.**
- '22 VT Hacks IX Judge
- '21 Career Panel: BranchOut, A Youth Community Outreach Program for Local High School Students
- '21 VT Hacks IX Judge

## References

**Alan Mislove (amislove@ccs.neu.edu)**

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**David Choffnes (choffnes@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

**Christo Wilson (c.wilson@ccs.neu.edu)**

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Assistant Professor of Computer Science, University of Maryland, USA