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EDUCATION

Korea University, Seoul, Republic of Korea	Information Security	Ph.D., 2016
Korea University, Seoul, Republic of Korea	Information Security	M.Sc., 2012
Seoul Women's University, Seoul, Republic of Korea	CS and Info Security	B.Sc., 2006

WORK EXPERIENCE

03/2016-Present	Postdoctoral Researcher	University at Buffalo, NY, USA
03/2011-02/2016	Research Assistant	Korea University, Seoul, Republic of Korea
04/2006-02/2010	Senior Engineer	Soft Camp, Inc. Seoul, Republic of Korea

HONORS AND AWARDS

2016 Junior faculty travel grant award, Army Research Office (ARO), IEEE CNS 2016, USA
2015 Best paper award (runner up), SIMPLEX 2015 (with WWW 2015), Florence, Italy
2014 Minister award for research achievement, Ministry of Science, ICT and Future Planning

PUBLICATIONS

1. **A. Kang**, J. Blackburn, H. Kwak, H. Kim, "I Would Not Plant Apple Trees If the World Will Be Wiped: Analyzing Hundreds of Millions of Behavioral Records of Players During an MMORPG Beta Test to the Games", In *Proc. of the 26th International World Wide Web Conference (WWW)*, 2017.
2. **A. Kang**, S. Jeong, S. Ko, K. Ren, A. Mohaisen, "Transparency in the New gTLD Era: Evaluating the DNS Centralized Zone Data Service", In *Proc. of IEEE HotWeb*, 2016.
3. **A. Kang**, A. Mohaisen, "Assessing DNS Privacy under Partial Deployment of Special-Use Domain Names", in *Proc. of IEEE CNS*, 2016. (extended abstract)
4. **A. Kang**, A. Mohaisen, "Transparency of the new gTLD's Centralized Zone Data Service: A Measurement Study", in *Proc. of IEEE CNS*, 2016. (extended abstract)
5. **A. Kang**, A. Mohaisen, "Automatic Alerts Annotation for Improving DDoS Mitigation Systems", in *Proc. of IEEE CNS*, 2016. (extended abstract)
6. J. Spaulding, **A. Kang**, S. Upadhyaya, A. Mohaisen, "A User Study of the Effectiveness of Typosquatting Techniques", in *Proc. of IEEE CNS*, 2016. (extended abstract)
7. M. Han, H. Han, **A. Kang**, B. Kwak, A. Mohaisen, H. Kim, "WHAP: Web-Hacking Profiling Using Case-Based Reasoning", in *Proc. of IEEE CNS*, 2016. (extended abstract)
8. **A. Kang**, K. Ren, A. Mohaisen, "Does Query Blocking Improve DNS Privacy?", in *Proc. the 17th World Conference on Information Security and Applications (WISA)*, 2016.
9. A. Mohaisen, **A. Kang**, Kui Ren, "Leakage of .onion at the DNS Root: Measurements, Causes, and Countermeasures", *IEEE/ACM Transactions on Networking*, 2016. (accepted with revisions)
10. S. Jeong, **A. Kang**, J. Kim, H. Kim, A. Mohaisen, "A Longitudinal Analysis of .i2p Leakage in the Public DNS Infrastructure", in *ACM SIGCOMM Computer Communication Review*, 2016.
11. **A. Kang**, S. Jeong, A. Mohaisen, H. Kim, "Multimodal Game Bot Detection using User Behavioral Characteristics", in *SpringerPlus*, 2016.
12. S. Jeong, **A. Kang**, H. Kim, "Analysis of Game Bot's Behavioral Characteristics in Social Interaction Networks of MMORPG", in *ACM SIGCOMM Computer Communication Review*, 2015.

13. **A. Kang**, J. Park, J. Lee, H. Kim, “Rise and Fall of Online Game Groups: Common Findings on Two Different Games”, in *Proc. of SIMPLEX 2015 (with WWW 2015) – best paper runner up*.
14. M. Han, J. Lee, **A. Kang**, S. Kang, J. Park, H. Kim, “A Statistical-based Anomaly Detection Method for Connected Cars in Internet of Things Environment”, in *Proc. of the 2nd International Conference on Internet of Vehicles (IOV)*, 2015.
15. **A. Kang**, H. Kim, J. Woo, J. Park, H. Kim, “Altruism in Games: Helping Others Help Themselves”, in *Proc. of ACM NetGames*, 2014.
16. J. Lee, **A. Kang**, H. Kim, J. Park, “Moneymakers and Bartering in Online Games: The Social Network Factors”, in *Proc. of the 5th Workshop on Complex Networks (CompleNet)*, 2014.
17. **A. Kang**, J. Woo, J. Park, H. Kim, “Online Game Bot Detection based on Party-play Log Analysis”, in *Elsevier Computers & Mathematics with Application*, 2013.
18. J. Woo, **A. Kang**, H. Kim, “The Contagion of Malicious Behaviors in Online Games”, in *ACM SIGCOMM Computer Communication Review*, 2013.
19. **A. Kang**, J. Park, H. Kim, “Loyalty or Profit? Early Evolutionary Dynamics of Online Game Groups”, in *Proc. of ACM NetGames*, 2013.
20. J. Woo, H. Kang, **A. Kang**, H. Kwon, H. Kim, “Who is Sending a Spam Email: Clustering and Characterizing Spamming Hosts”, in *Proc. of the Int. Conf. on Info. Sec. and Crypt. (ICISC)*, 2013.
21. J. Lee, **A. Kang**, H. Kim, J. Park, “Information and Moneymakers in Bartering in Online Games: The Network Factors”, in *Proc. of Workshop on Information in Networks (WIN)*, 2013.
22. S. Son, **A. Kang**, H. Kim, T. Kwon, J. Park, H. Kim, “Analysis of Context Dependence in Social Interaction Networks of a Massively Multiplayer Online Role-Playing Game”, in *PLoS ONE*, 2012.
23. **A. Kang**, H. Kim, J. Woo, “Chatting Pattern Based Game BOT Detection: Do They Talk Like Us?”, in *KSII Transactions on Internet and Information Systems (TIIS)*, 2012.
24. J. Woo, **A. Kang**, H. Kim, “Modeling of Bot Usage Diffusion across Social Networks in MMORPGs”, in *Proc. of WASA: Workshop at ACM SIGGRAPH*, 2012.
25. S. Son, **A. Kang**, H. Kim, T. Kwon, J. Park, H. Kim, “Multi-Relational Social Networks in a Large-Scale MMORPG”, in *ACM SIGCOMM Computer Communication Review*, 2011.
26. **A. Kang**, J. Woo, H. Kim, “Data and Text Mining of Communication Patterns for Game Bot Detection”, in *Proc. of the 3rd Int. Conf. on Internet (ICONI)*, 2011.
27. **A. Kang**, J. Woo, J. Park, H. Kim, “Online Game Bot Detection based on Party-play Log Analysis”, in *Proc. of the Int. Symp. on Advances in Crypto., Sec. and App. for Future Computing*, 2011.

PATENTS

1. H. Kim, H. Kim, B. Kwak, **A. Kang**, “Apparatus and Method for Providing Safety of Autonomous Driving Vehicle”, Korean Intellectual Property Office, Patent No. 10-2015-0155967, 2015.
2. H. Kim, **A. Kang**, “Online Game Irregularity Detection System and Method using Log Information”, Korean Intellectual Property Office, Patent No. 10-2011-0064558, 2011.

SERVICES

TPC Member: SIMPLEX 2016 (with IEEE INCP), iThings 2016

External reviewer: IEEE INFOCOM 2017, IEEE TDSC 2016, IEEE IJIS 2016, IEEE HotWeb 2016, ICSSA 2016, SECURECOMM 2016, WISA 2015, ICCCT 2012