Gyuyeong Kim
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https://gyuyeongkim.github.io/

RESEARCH INTERESTS

Data Center Networking, Cloud Computing, Programmable Dataplane, P4 Language

EDUCATION

Ph.D. in Computer Science, **Korea University** Mar. 2012 - Present
Advisor: Prof. Wonjun Lee
B.E. in Brain and Cognitive Sciences, **Korea University** Sept. 2009 - Feb. 2012
B.E. in Computer Science, **Korea University** Mar. 2008 - Feb. 2012
Exchange Student in **Lund Tekniska Hgskola (LTH)** Jan. 2011 - Jun. 2011

RESEARCH EXPERIENCE

Application-Specialized Networking

- aSTEAM: App-Specialized Transport for Evolvability, Autonomicity, and Measurability, NRF, PI:*Prof. Wonjun Lee* Oct. 2018 - Present

SDN/NFV and Programmable Networks

- Development of Core Technologies for Programmable Switch in Multi-Service Networks, IITP, PI:*Prof. Sangheon Pack* Jan. 2017 - Present

Data Center Networking and Cloud Computing

- Cloud Bridges-Piers: Optimization Technologies towards Higher Performance of Wireless Networking Cloud, NRF, PI:*Prof. Wonjun Lee* Jun. 2013 - May 2016

- A Fair Network Performance Isolation Framework in Multi-Tenancy Cloud Data Center Networks, **Global Ph.D. Fellowship**, NRF Mar. 2012 - Feb. 2014

TALKS

SDN/NFV Forum P4 WG 2018 2nd Meetup, Seoul, South Korea Oct. 12, 2018
- Service Function Chaining in P4-enabled Programmable Switches

ONOS-P4 Brigade Work Days 2017, Seoul, South Korea Sept. 19, 2017
- Controller-independent Loss-aware Low Latency State Migration in Network Functions Virtualization

PUBLICATIONS

1. **Gyuyeong Kim** and Wonjun Lee, "Tardy Flow Scheduling in Data Center Networks," *IEICE Transactions on Information and Systems*, Vol. E99-D, No. 9, pp. 2400-2403, September 2016.
2. **Gyuyeong Kim** and Wonjun Lee, "Stable Matching with Ties for Cloud-assisted Smart TV Services," in *Proc. of IEEE International Conference on Consumer Electronics (ICCE)*, Las Vegas, NV, January 2014.
3. **Gyuyeong Kim** and Wonjun Lee, "Cannot Take My Allocation: Enforcing Fairness by Considering Demand and Payment in Clouds," in *Proc. of The 4th International Conference on Network of the Future (NoF)*, Pohang, South Korea, October 2013.
4. **Gyuyeong Kim**, Hoorin Park, Jieun Yu, and Wonjun Lee, "Virtual Machines Placement for Network Isolation in Clouds," in *Proc. of ACM Research in Applied Computation Symposium*, San Antonio, TX, October 2012.

PATENTS

1. Wonjun Lee and **Gyuyeong Kim**, "Method and Device for Scheduling Flow of Packet for Reducing Delay Time Due To Retransmit of Packet," *Korean Patent* 10-1841143, March 16, 2018.

AWARDS AND HONORS

IEEE Seoul Section International Student Paper Contest Bronze Paper Award 2014
- Fault Tolerant Topology Reconfiguration in Optical Wireless Data Center Networks
Global Ph.D. Fellowship (GPF), NRF, South Korea 2012 - 2014
ACM-ICPC Seoul Regional Contest 10th Place 2009
National Collegiate Programming Contest Silver Prize, South Korea 2009
Oracle JavaFX Software Contest 3rd Prize 2009
ACM-ICPC Seoul Regional Contest Honorable Mentions 2008

WORK EXPERIENCE

Korea University Lecture Evaluation (KLUE) http://klue.kr
- An online service providing course reviews and ratings source based on student feedback at Korea University. Roughly 430,000 reviews by 42,000 members are available today
President Jan. 2011 - Feb. 2015
- Led our team and managed the service. Developed the service and maintained the service infrastructure. Interviewed by multiple press.
Co-Founder and Junior developer Mar. 2010 - Jun. 2010
- Designed and developed a part of the service.

TEACHING EXPERIENCE

Teaching Assistant, Korea University

Computer Networks (IMS2012)	Summer 2018
Computer Networks (IMS301)	Spring 2018
Computer Networks (IMS301)	Fall 2017
Class 43 (CYDF316)	Fall 2016
Class 53 (CYDF321)	Spring 2016
Computer Networks (COSE342)	Fall 2015
Class 31 (CYDF305)	Spring 2014
Wireless Mobile Communications (CNCE407)	Spring 2013
Wireless Mobile Communications (CNCE407)	Spring 2012

REFERENCES

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