Genya Ishigaki

Ph.D. student
Advanced Networks Research Lab
Dept. of Computer Science
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Education

August, 2016 - Ph.D. student (Computer Science) at The University of Texas at Dallas
Advanced Networks Research Lab led by Prof. Jason P. Jue

April - August, 2016 Student researcher at Soka University, Japan
Networking Lab led by Prof. Norihiko Shinomiya

March, 2016 Master of Science in Engineering from Soka University, Japan GPA **4.0** / 4.0
Computer Science major
Networking Lab led by Prof. Norihiko Shinomiya

March, 2014 Bachelor of Science in Engineering from Soka University, Japan GPA **3.95** / 4.0
Computer Science major
Networking Lab led by Prof. Norihiko Shinomiya

August, 2013 Visiting student researcher at The University of California, Irvine
under the guidance of Prof. Lubomir Bic

Experiences

2017 Teaching Assistant at The University of Texas at Dallas
(CS4390 Computer Networks)

2015 - IEEE Tokyo Young Professionals (YPs) committee

2014 - 2016 Teaching Assistant at Soka University
(Introduction to programming, Linear programming, Graph theory seminar)

Research Interests

Survivability problems in layered networks, Graph optimization algorithms, Software Defined Networking

Honors and Awards

Full Scholarship for Ph.D. Study (Japanse government-funded, 2016 - present)

Full Scholarship for Master Study (Japanse government-funded, 2014 - 2016)

NEC C&C Foundation Travel Grant (2015)

Award for Excellence (student) of Technical Committee on Circuits and Systems, IEICE ES Society (2014)

Top Graduate of Dept. of Information Systems Science (Soka University, class of 2014)

Soka University Tuition Merit Scholarship (2010 - 2014)

Honor Student of Soka University (2010, 2011, 2012, 2013)

Selected Publications

1. **Genya Ishigaki**, Riti Gour, Jason P. Jue, "*Improving the Survivability of Interdependent Networks by Restructuring Dependencies*," IEEE International Conference on Communications (ICC) 2018, May. 2018.
2. Ashkan Yousefpour, **Genya Ishigaki**, Riti Gour, Jason P. Jue, "*On Reducing IoT Service Delay via Fog Offloading*," IEEE Internet of Things Journal, 2018 [to be published].
3. **Genya Ishigaki**, Riti Gour, Ashkan Yousefpour, NorihikoShinomiya, Jason P. Jue, "*Cluster Leader Election Problem for Distributed Controller Placement in SDN*," IEEE Global Communications Conference (GLOBECOM) 2017, Dec. 2017.
4. **Genya Ishigaki**, Norihiko Shinomiya, "*On Composing a Resilient Tree in a Network with Intermittent Links Based on Stress Centrality*," Computers and Communication (ISCC), 2016 IEEE Symposium on, Jun. 2016.
5. **Genya Ishigaki**, Norihiko Shinomiya, "*Controller placement algorithm to alleviate burdens on communication nodes*," Computing, Networking and Communications (ICNC), 2016 International Conference on, Feb. 2016.
6. **Genya Ishigaki**, Norihiko Shinomiya, "*Distributed Network Flow Optimization Algorithm with Tie-set Control based on Coloring for SDN*," Computing, Networking and Communications (ICNC), 2015 International Conference on, Feb. 2015.
7. **Genya Ishigaki**, Masao Yoshida, Norihiko Shinomiya, "*On maximizing tree reliability based on minimum diameter spanning tree*," Circuits and Systems (APCCAS), 2014 IEEE Asia Pacific Conference on, Nov. 2014.

Computer Skills

Java, Python, C, MySQL, Lua, TeX

Reference

Jason P. Jue Ph.D.
Professor in Dept. of Computer Science at the University of Texas at Dallas

Norihiko Shinomiya Ph.D.
Professor in Faculty of Science and Engineering, Soka University