

# Curriculum Vitae

## Genya Ishigaki

Student researcher  
Dept. of Information Systems Science  
Faculty of Science and Engineering  
Soka University

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## Education

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| <b>March, 2016</b>  | Master of Science in Engineering from Soka University (Computer Science major)<br>GPA <b>4.0</b> / 4.0<br>Network Laboratory    |
| <b>March, 2014</b>  | Bachelor of Science in Engineering from Soka University (Computer Science major)<br>GPA <b>3.95</b> / 4.0<br>Network Laboratory |
| <b>Summer, 2013</b> | Visiting student researcher at the University of California, Irvine<br>in the guidance of Prof. Lubomir Bic                     |

## Teaching Experiences

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Teaching Assistant at Soka University

(Networking lab, Introduction to programming, Linear programming, Graph theory seminar)

## Honors and Awards

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Ph.D. Study Scholarship from JASSO funded by Jpn. Govt. (full tuition and living expenses for 3 years)  
NEC C&C Foundation Travel Grant (2nd term of Fiscal 2015) for ICNC2016  
Award for Excellence (student) of Technical Committee on Circuits and Systems, IEICE ES Society (2014)  
The Top Graduate of Dept. of Information Systems Science (class of 2014)  
Tuition Merit Scholarship of Soka University (2010 - 2014)  
Honor Student of Soka University (2010, 2011, 2012, 2013)  
Field research and intensive research course scholarship from Soka University (2010 - 2012)

## Selected Publications

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1. **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.
2. **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.

3. **Genya Ishigaki**, Norihiko Shinomiya, "*Controller placement algorithm to alleviate burdens on communication nodes*," Computing, Networking and Communications (ICNC), 2016 International Conference on, Feb. 2016.
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, June. 2016 (accepted).
5. **Genya Ishigaki**, Nobumasa Sawaki, Norihiko Shinomiya, "*An Evaluation Method of Tree Networks including Unreliable Communications Links*," Proceedings of the Society Conference of IEICE, Sep. 2013.
6. **Genya Ishigaki**, Norihiko Shinomiya, "*On composing a robust tree against single link failure in a network with reliability of links*," IEICE Tech. Rep., vol. 114, no. 312, pp. 127-130, Nov. 2014.
7. **Genya Ishigaki**, Norihiko Shinomiya, "*On composing a disruption tolerant tree in a network with intermittent links based on stress centrality*," IEICE Tech. Rep., vol. 115, no. 315, CAS2015-46, pp. 21-24, Nov, 2015.

## Research Interests

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Network Design, Graph Theory, Distributed Algorithms, Combinatorial optimization

## Professional Memberships

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IEEE student member (2014 - present)

Institute of The Electronics, Information and Communication Engineers student member (2013 - 2016)

IEEE Tokyo Young Professionals (YPs) committee ( 2015 - present )

The 12th IEEE Transdisciplinary-Oriented Workshop for Emerging Researchers executive committee

## Computer Skills

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Java, Python, C, JavaScript, MySQL, Lua, TeX

Experiences in simulator development for academic papers with Java and Python

## Languages

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TOEFL iBT **105** (October, 2015), TOEIC **960** (December, 2014)

Native speaker of Japanese

## Reference

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### Norihiko Shinomiya

Professor in Faculty of Science and Engineering, Soka University

Japan Chapter Secretary, IEEE Circuits and Systems Society (2012 - 2013)

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