

Duc A. Hoang

Curriculum Vitae



The current CV was updated on January 27, 2019.

Personal Information

Full name (Vietnamese) Hoàng Anh Đức.
Name (in publications) Duc A. Hoang.
Gender Male.
Nationality Vietnamese.

Current Position

Contact Information

Email (personal) anhduc.hoang1990@gmail.com
Email (work)
Personal Webpage <http://hoanganhduc.github.io/>

Education

- Apr. 2015 – Jun. 2018 **PhD Degree in Information Science**
- [Japan Advanced Institute of Science and Technology](#) (Ishikawa, Japan).
 - Supervisor: [Ryuhei UEHARA](#).
 - Thesis Title: Independent Set Reconfiguration and Related Problems for Some Restricted Graphs.
- Apr. 2013 – Mar. 2015 **Master Degree in Information Science**
- [Japan Advanced Institute of Science and Technology](#) (Ishikawa, Japan).
 - Supervisor: [Ryuhei UEHARA](#).
 - Thesis Title: The Independent Set Reconfiguration Problem on Some Restricted Graphs.
- Sep. 2008 – Mar. 2013 **Bachelor Degree in Mathematics**
- [VNU University of Science](#) (Hanoi, Vietnam).
 - Thesis Advisor: [Thi Ha Duong PHAN](#).
 - Thesis Title: The Matrix-Tree Theorem and Some Related Problems.

Languages

Vietnamese Native
English Professional working proficiency

Research Interests

- Graph Algorithms.
- Combinatorial Reconfiguration.

Positions Held

- Sep. 05, 2018 – Dec. 31, 2018 **Teaching Assistant** at Department of Informatics, Faculty of Mathematics, Mechanics and Informatics, VNU University of Science, Hanoi, Vietnam.
- Apr. 01, 2016 – Jul. 08, 2016 **Visiting Student** at Algorithm Theory Lab, Graduate School of Information Sciences, Tohoku University, Japan. Host: Xiao ZHOU, and Takehiro ITO.

Professional Services

2018

- Reviewer Theoretical Computer Science.
Sub-Reviewer COCOON 2018.

2017

- Reviewer Discrete Applied Mathematics.
(Sub-)Reviewer IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences.

Teaching Experiences

- Sep. 10, 2018 - Dec. 13, 2018 **Teaching Assistant** – VNU-HUS MAT3302: Toán rời rạc
- Sep. 06, 2018 – Dec. 13, 2018 **Teaching Assistant** – VNU-HUS MAT3302 2TNT: Toán rời rạc
- Oct. 11, 2017 – Nov. 30, 2017 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.
- Apr. 12, 2017 – Jun. 02, 2017 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.
- Oct. 12, 2016 – Dec. 01, 2016 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.
- Apr. 08, 2015 – Jun. 05, 2015 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.

Awards

- Jun. 22, 2018 JAIST Outstanding Performance Award for doctoral students.

Co-authors (in alphabetical order)

Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Takehiro Ito, Amanj Khorramian, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, Takeshi Yamada.

Publications

A list of my publications can also be found at [DBLP](#) and [Google Scholar](#). Some of them are available as preprint manuscripts at [arXiv](#).

Preprint

1. Duc A. Hoang, Amanj Khorramian, and Ryuhei Uehara. Shortest Reconfiguration Sequence for Sliding Tokens on Spider. *arXiv preprint* (2018). arXiv: [1806.08291](#).

Journal

1. Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Duc A. Hoang, Takehiro Ito, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, and Takeshi Yamada. Linear-time algorithm for sliding tokens on trees. *Theoretical Computer Science* **600** (2015), 132–142. DOI: [10.1016/j.tcs.2015.07.037](https://doi.org/10.1016/j.tcs.2015.07.037).

International Conference

1. Duc A. Hoang, Eli Fox-Epstein, and Ryuhei Uehara. Sliding tokens on block graphs. In: *Proceedings of WALCOM 2017*. Ed. by Sheung-Hung Poon, Md. Saidur Rahman, and Hsu-Chun Yen. Vol. 10167. LNCS. Springer, 2017, pp.460–471. DOI: [10.1007/978-3-319-53925-6_36](https://doi.org/10.1007/978-3-319-53925-6_36). [Withdrawn, because of a flaw in Proposition 6].
2. Duc A. Hoang and Ryuhei Uehara. Sliding tokens on a cactus. In: *Proceedings of ISAAC 2016*. Ed. by Seok-Hee Hong. Vol. 64. LIPIcs. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, pp.37:1–37:26. DOI: [10.4230/LIPIcs.ISAAC.2016.37](https://doi.org/10.4230/LIPIcs.ISAAC.2016.37).
3. Eli Fox-Epstein, Duc A. Hoang, Yota Otachi, and Ryuhei Uehara. Sliding token on bipartite permutation graphs. In: *Proceedings of ISAAC 2015*. Ed. by Khaled Elbassioni and Kazuhisa Makino. Vol. 9472. LNCS. Springer, 2015, pp.237–247. DOI: [10.1007/978-3-662-48971-0_21](https://doi.org/10.1007/978-3-662-48971-0_21).
4. Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Duc A. Hoang, Takehiro Ito, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, and Takeshi Yamada. Polynomial-time algorithm for sliding tokens on trees. In: *Proceedings of ISAAC 2014*. Ed. by Hee-Kap Ahn and Chan-Su Shin. Vol. 8889. LNCS. Springer, 2014, pp.389–400. DOI: [10.1007/978-3-319-13075-0_31](https://doi.org/10.1007/978-3-319-13075-0_31).

PhD Thesis

1. Duc A. Hoang. “Independent set reconfiguration and related problems for some restricted graphs.” PhD thesis. Japan Advanced Institute of Science and Technology, 2018. <http://hdl.handle.net/10119/15431>.