

Adrianto Ravi Ibrahim, Ph.D

Independent Researcher

EDUCATION

- 10.2017 – 09.2020 **Ph.D. Program** Tokyo Institute of Technology
Dynamical Systems Laboratory
Advisor: Prof. Tomohisa Hayakawa
Theme: Games with Dynamic Agents
Expected graduation: 08.2020
- 8.2014 – 8.2016 **Master of Engineering** Georgia Institute of Technology
Department of Electrical and Computer Engineering
- 8.2007 – 4.2012 **Bachelor of Engineering** Institut Teknologi Bandung
Electrical Engineering Program

ACADEMIC ACTIVITY

Research Experience

- 5.2012 – 6.2014 **Research Assistant** Advanced Robotics Laboratory, Institut Teknologi Bandung
Mentor: Prof. Widyawardana Adiprawita
Themes: Teleoperation of Humanoid Robot, Multiagent Systems
- 9.2010 – 9.2011 **JUSST Student Exchange Program** University of Electro-Communication
Mentor: Prof. Takayuki Nagai
Theme: Teleoperation of Domestic Robot

Review Activity

- Journal* IEEE Transactions on Automatic Control

Teaching Experience

- Spring 2016* **Signal and Systems** Georgia Institute of Technology
Fall 2008 **Circuit Theory** Institut Teknologi Bandung
Fall 2008 **Basic Physics Laboratory** Institut Teknologi Bandung

LIST OF PUBLICATIONS

Peer Reviewed Conference Articles

- A. R. Ibrahim and T. Hayakawa, "Nash equilibrium seeking with second-order dynamic agents", *IEEE Conference on Decision and Control*, 2018.
- A. R. Ibrahim and T. Hayakawa, "Nash equilibrium seeking with linear time-invariant dynamic agents", *American Control Conference*, 2019.
- A. R. Ibrahim and T. Hayakawa, "Subset of totally positive externalities", *European Control Conference*, 2020.

- A. R. Ibrahim and T. Hayakawa, ‘Characterization of Games by Self-Improving Agents with Totally Positive Externalities’, submitted to *24th International Symposium on Mathematical Theory of Networks and Systems*, 2020, *accepted*.

SKILLS

Technical Skill

Numerical Matlab, Python
Mostly for simulation of ordinary differential equations.

Languages

Native Bahasa Indonesia
Fluent English
Basic Survival Japanese

REFERENCES

Professor Tomohisa Hayakawa (hayakawa[at]sc.e.titech.ac.jp)