Adrianto Ravi Ibrahim

Postdoctoral Researcher
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WORK EXPERIENCE

01/2021 – Now **Postdoctoral Researcher** National Institute of Informatics
ERATO MMSD Project
Theme: Platoon games, stochastic games, reachability games

EDUCATION

9/2017 – 8/2020 **Ph.D. Program** Tokyo Institute of Technology
Dynamical Systems Laboratory
Advisor: Prof. Tomohisa Hayakawa
Thesis: Characterization of the Behavior of Dynamic Agents in Noncooperative Games

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
Journal IEEE Transactions on Control of Network Systems

Teaching Experience

Spring 2016 **Signal and Systems** Georgia Institute of Technology
Fall 2008 **Circuit Theory** Institut Tekknologi Bandung
Fall 2008 **Basic Physics Laboratory** Institut Tekknologi 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, 'Case studies of games by self-interested agents with totally positive externalities", *24th International Symposium on Mathematical Theory of Networks and Systems,* 2020.
- A. R. Ibrahim and A. Cetinkaya and M. Kishida, "Timed congestion games with application to multi-fleet platoon matching", *IEEE Conference on Decision and Control,* 2021.

SKILLS

Technical Skill

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

Languages

Native	Bahasa Indonesia
Fluent	English
N3 level	Japanese

REFERENCES

Ahmet Cetinkaya (cetinkaya[at]nii.ac.jp)
Masako Kishida (kishida[at]nii.ac.jp)