

Yurid E. Nugraha

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PhD student

Tokyo Institute of Technology

Department of Systems and Control Engineering

Education	<p>Dr.Eng. in Systems and Control Engineering, Tokyo Institute of Technology, 2020-now Advisor: Tomohisa Hayakawa</p> <p>M.Eng. in Systems and Control Engineering, Tokyo Institute of Technology, 2018-2020, GPA: 3.50/4.50 (equivalent to 90/100) Thesis: Two-player dynamic resilient graph games for jamming attacks and recoveries analysis on multi-agent systems Advisor: Tomohisa Hayakawa</p> <p>Research student, Systems and Control engineering, Tokyo Institute of Technology, 2017-2018</p> <p>B.Eng. in Electrical Engineering, Sepuluh Nopember Institute of Technology, 2012-2016, GPA: 3.71/4.00 (<i>cum laude</i>) Thesis: Waypoint tracking control of quadcopter Using PID-sliding mode control Advisor: Rusdhianto Effendi, Eka Iskandar</p>
Research	<p>Systems and Control Engineering, Tokyo Institute of Technology as research student, master's degree student, and PhD student (2017-now) Research topics:</p> <ul style="list-style-type: none">• Rolling horizon game of jamming attacks on networked systems• Clustering and consensus on networks under jamming attacks• Subgame perfect equilibrium of jamming attacks on networked systems <p>Electrical Engineering, Sepuluh Nopember Institute of Technology as final-year bachelor student (2015-2016) Research topic: Nonlinear tracking control of quadcopter</p>
Awards and Fellowships	<p>PPA Scholarship, Sepuluh Nopember Institute of Technology, 2013-2016</p> <p>Monbukagakusho Scholarship, Tokyo Institute of Technology, 2017-now</p> <p>SICE International Young Authors Award, 2020</p>
Languages and Skills	<p>Indonesian (native), Javanese (native), English (advanced), Japanese (basic)</p> <p>Matlab, L^AT_EX, Python, LabView, Fluidsim, Blender</p>

Journal Publication List

1. Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "Dynamic resilient network games with applications to multiagent consensus", *IEEE Trans. Contr. Netw. Systems*, vol. 8, pp. 246-259, 2021.

Conference Publication List

1. Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "Two-player rolling horizon games for jamming attacks on multiagent systems", in *Int. Systems and Control Symposium* as position paper, 2021.
2. ———, "Dynamic resilient network games considering connectivity", in *Proc. IEEE Conf. Decision and Control*, 2020, pp. 3779-3784.
3. ———, "Dynamic resilient graph games for state-dependent jamming attacks analysis on multi-agent systems," in *Proc. IFAC World Congress*, 2020, pp. 3483–3488.
4. ———, "Two-player resilient graph games for state-dependent jamming attacks analysis on multi-agent systems", in *Int. Systems and Control Symposium* as position paper, 2020.
5. ———, "Subgame perfect equilibrium analysis for jamming attacks on resilient graphs," in *Proc. American Control Conf.*, 2019, pp. 2060-2065.
6. ———, "Two-player subgame perfect equilibrium analysis for jamming attacks on dynamic graphs", in *Int. Systems and Control Symposium* as position paper, 2019.

Review Experience

- IEEE Transactions on Network Science (2020)
- IEEE Control Systems Letters (2021)
- IEEE Conference on Decisions and Control (2020, 2021)