

Yurid Eka Nugraha

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Assistant Professor
Institut Teknologi Sepuluh Nopember
Department of Electrical Engineering

Employment **Assistant Professor**, Dept. of Electrical Engineering,
Institut Teknologi Sepuluh Nopember (ITS) (Jul. 2025-now)
Junior Lecturer, Dept. of Electrical Engineering,
Institut Teknologi Sepuluh Nopember (ITS) (Feb. 2023-Jun. 2025)

Education **Ph.D. in Systems and Control Engineering**, Tokyo Institute of Technology,
Apr. 2020 - Dec. 2022, GPA: 4.05/4.50 (equivalent to 95.5/100)
Thesis: Consensus and clustering of dynamic resilient multiagent systems under
repeated games
Advisor: Tomohisa Hayakawa
M.Eng. in Systems and Control Engineering, Tokyo Institute of Technology,
Apr. 2018 - Apr. 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
Research student, Systems and Control engineering, Tokyo Institute of Technology,
Apr. 2017 - Mar. 2018
B.Eng. in Electrical Engineering (Control System Engineering subfield),
Institut Teknologi Sepuluh Nopember,
Aug. 2012 - Mar. 2016, GPA: 3.71/4.00 (*cum laude*)
Thesis: Waypoint tracking control of quadcopter Using PID-sliding mode control
Advisor: Rusdhianto Effendi, Eka Iskandar

Research Interest

- Cross between game theory and multiagent systems
- Security of cyberphysical systems
- Nonlinear control systems
- Networked control systems
- Control theory

Awards and Fellowships **PPA Scholarship**, by Indonesian Government, 2013-2016
Monbukagakusho Scholarship, by Japanese Government, 2017-2022
SICE International Young Authors Award, by Society of Instrument
and Control Engineers (SICE), 2020

Selected Journal Publication List

1. Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, "Rolling horizon games of resilient networks with non-uniform horizons", *European Journal of Control*, pp. 100693, 2022.
2. ———, "Dynamic resilient network games with applications to multiagent consensus", *IEEE Trans. Contr. Netw. Systems*, vol. 8, pp. 246-259, 2021.

Selected Conference Publication List

1. Y. Nugraha, A. Cetinkaya, T. Hayakawa, H. Ishii, and Q. Zhu, “Two-Player incomplete games of resilient multiagent systems”, in *Proc. IFAC World Congress*, 2023, to appear.
2. ———, “Rolling horizon games of resilient networks with non-uniform horizons”, in *Proc. European Control Conf.*, 2022, pp. 1254-1269 (also appeared as a journal in EJC).
3. ———, “Rolling horizon games for cluster formation of resilient multiagent systems”, in *Proc. IEEE Conf. Decision and Control*, 2021, pp. 4829-4934.
4. ———, “Cluster formation in multiagent consensus via dynamic resilient graph games”, in *Proc. IEEE Conf. on Control Technology and Applications*, 2021, pp. 735-740.
5. ———, “Dynamic resilient network games considering connectivity”, in *Proc. IEEE Conf. Decision and Control*, 2020, pp. 3779-3784.
6. ———, “Dynamic resilient graph games for state-dependent jamming attacks analysis on multi-agent systems”, in *Proc. IFAC World Congress*, 2020, pp. 3421-3426.
7. ———, “Subgame perfect equilibrium analysis for jamming attacks on resilient graphs”, in *Proc. American Control Conf.*, 2019, pp. 2060-2065.

Review and Organizing Experience

Journal: Automatica, IEEE Transactions on Automatic Control, IEEE Transactions on Cybernetics, IEEE Transactions on Control of Network Systems, IEEE Control Systems Letters, IEEE Transactions on Network Science and Engineering.

Conference: IEEE Conference on Decision and Control, American Control Conference, European Control Conference, IFAC World Congress, ISITIA, ICEECIT.

Conference organizer: ISITIA (TPC Chair 2024, TPC Chair 2025).

Society Membership

IEEE
IEEE Control Systems Society
IEEE Systems, Man, and Cybernetics Society.