Kota Fujimoto

PHD STUDENT

The University of Tokyo, Kashiwa, Japan

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Education	
The University of Tokyo PHD ENGINEERING • Advisor: Dr. Hiroshi Fujimoto	Kashiwa, Japan 2023 - present
The University of Tokyo MSc Advanced Energy Advisor: Dr. Hiroshi Fujimoto	Kashiwa, Japan 2021 - 2022
The University of Tokyo BENG AERONAUTICS AND ASTRONAUTICS • Advisor: Dr. Koji Uenishi	Tokyo, Japan 2017 - 2020

Conference and Presentation _

PEER-REVIEWED

- **K. Fujimoto**, T. Hamada and H. Fujimoto, "Proposal on Model Based Current Overshoot Suppression of Receiver Side Coil in Drone Wireless Power Transfer System," in IEEE 2022 Wireless Power Week (WPW), pp. 235-239, Bordeaux, France, 2022, doi: 10.1109/WPW54272.2022.9854039.
- **K. Fujimoto**, S. Nagai, B. M. Nguyen, H. Fujimoto, "Test Bench Study on Attitude Estimation in Ground Effect Region Based on Motor Current for In-Flight Inductive Power Transfer of Drones," in IEEE 2023 The 49th Annual Conference of the IEEE Industrial Electronics Society (IECON), Singapore, 2023 (To be presented).
- Y. Sato, **K. Fujimoto**, R. Matsumoto, S. Nagai, B. M. Nguyen, H. Fujimoto, "Basic Study on Received Power Control of In-Flight Inductive Power Transfer for Drones by Active Rectifier Switching and Altitude Regulation," in IEEE 2023 The 49th Annual Conference of the IEEE Industrial Electronics Society (IECON), Singapore, 2023 (To be presented).

NON-PEER-REVIEWED

- **K. Fujimoto**, K. Yokota, S. Nagai, H. Fujimoto, "Modeling and Verification of Pitch-Dependent Coupling Coefficient for WPT to Flying Drone," in IEE-Japan 2021 Industry Applications Society Conference (JIASC), No. 48, Nagaoka University of Technology, 2021.
- **K. Fujimoto**, O. Shimizu, H. Fujimoto, J. Katsuya, T. Sato, "Requirement Analysis for Dynamic Wireless Power Transfer with Big Data from Real Vehicles," in IEE-Japan Joint Technical Meeting on Power Engineering/Power Systems Engineering/Semiconductor Power Converter (SPC), No. SPC23140, Okinawa, 2023.
- Y. Sato, **K. Fujimoto**, R. Matsumoto, S. Nagai, B. M. Nguyen, H. Fujimoto, "Basic Study on Flight Altitude and Battery Current Control in In-Flight Wireless Power Transfer for Drones," in IEE-Japan Joint Technical Meeting on Power Engineering/Power Systems Engineering/Semiconductor Power Converter (SPC), No. SPC23141, Okinawa, 2023.
- K. Fujimoto, H. Fujimoto, Y. Isaoka, Y. Terada, "High Precision Control for Twin-Drive System of Machine Tool Based on Mode Decoupling with Virtual Viscosity: Basic Study on Two-Inertia System," in IEE-Japan Technical Meeting on Mechatronics Control (PSS), No. MEC23011, Tokyo, 2023

Awards, Fellowships, & Grants _____

AWARDS

2022 IEEJ Excellent Presentation Award, The Institute of Electrical Engineers of Japan APET Excellent Poster Presentation Award 3rd Prize, Center for Advanced Power & Environmental Technology

FELLOWSHIP

Fostering Advanced Human Resources to Lead Green Transformation (SPRING GX), The 2023 University of Tokyo

GRANT

- 2022 **Researcher Overseas Training Grant**, Suzuki Foundation
- 2023 Overseas Travel Expense Assistance, The Telecommunications Advancement Foundation

Teaching/Supervising Experience _____

2021-2023 Graduate Teaching Assistant, Electrical and Electronic Engineering, The University of Tokyo

Outreach & Professional Development ______

SERVICE AND OUTREACH

2022	Workshop in Kashiwanoha innovation festival, Operational Stuff at Craft Construction	
	Course of Dynamic Wireless Power Transfer	Chiba
2022-2023	School Festival, Operational Stuff at Lab Introduction exhibit	Tokyo
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INTERNSHIP

2022 ACSL Ltd., R&D Mechatronics team 2023 Université de technologie de Compiègne, Project internship student

Tokyo France

PROFESSIONAL MEMBERSHIPS

The Institute of Electrical and Electronics Engineers Graduate Student Member The Institute of Electrical Engineers of Japan Society Student Member The Japan Society for Aeronautical and Space Sciences Student Member