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

GRANTS

202	Researcher Overseas Training Grant, Suzuki Foundation	
202	Fostering Advanced Human Resources to Lead Green Transformation (SPRING GX), The University of Tokyo	
202	Overseas Travel Expense Assistance, The Telecommunications Advancement Foundation	
Teaching/Supervising Experience		
2021-202	Graduate Teaching Assistant , Electrical and Electronic Engineering, The University of Tokyo	
Outreach & Professional Development		
202	Workshop in Kashiwanoha innovation festival, Operational Stuff at Craft Construction Course of Dynamic Wireless Power Transfer	Chiba
2022-202	School Festival, Operational Stuff at Lab Introduction exhibit	Tokyo
INTERNS	IIP	
202 202		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