



Professor

## **KIMURA Mamoru**

Email: mamoru.kimura[at]riko.shimane-u.ac.jp

(Please change [at] to @ for email.)

---

### Background

- 1999 Master of Electrical Engineering from Tohoku University
- 1999 Researcher at Hitachi Ltd. Hitachi Research Laboratory
- 2008 Engineer at Hitachi Ltd. Hitachi Works
- 2010 Senior Researcher at Hitachi Ltd. Hitachi Research Laboratory
- 2014 Doctor of Engineering from Tohoku University
- 2019 Senior Researcher at Hitachi Metals, Ltd.
- 2020 Professor (Cross appointment) at Shimane University

More than 20 years of experience in R & D of motors, generators and wind turbines

### Research

Motor design using amorphous metal

### Key papers

1. Kimura M., Ide K., Nishihama K., Futami M., Ichinose M., Fujigaki T., Iizuka M., Imaie K., Yagi Y., Tamura J., " A study of generator system selection for Large wind turbine generator system", IEEJ Transactions on Industry Applications, Vol. 126, No. 3, Page. 255-260 (2006.3)
2. Kimura M., Ide K., Nishihama K., Futami M., Ichinose M., Fujigaki T., Iizuka M., Imaie K., Yagi Y., Tamura J., " A study of generator system selection for Large wind turbine generator system", Electrical Engineering in Japan Vol. 161, Issue 1, Page 51-57 (2007.10)
3. Kimura M., Ide K., Mikami H., "A Study of Current Waveform Analysis for PWM Inverter-Fed Permanent Magnet Synchronous Machine Based on Harmonic Reactance", IEEJ Transactions on Industry Applications, Vol. 129, No. 3, Page. 297-302 (2009. 3)
4. Sugimoto S., Komura A., Kimura M., Nishihama K., Koike M., Masuda S., "Study on Decreasing Time and Space Harmonic losses of Induction Motor", IEEJ Transactions on Industry Applications, Vol. 135, No.10, Page. 993-998 (2015.10)
5. Hori M., Kimura M., Koizumi T., " The Study on Converter Drive Characteristics of Permanent Magnet Generator for Diesel Electric Propulsion System", IEEJ Transactions on Industry Applications, Vol. 137, No. 3, Page. 230-237 (2017. 3)
6. Hori M., Kusuno N., Kimura M., "Electrical Characteristics of a Brushless Doubly-Fed AC Machine Equipped with Power Conditioning System Located in Rotor", IEEJ Transactions on Industry Applications, Vol. 138, No. 4, Page. 368-375 (2018. 4)