

Masataka MINAMI

Date of Birth: November 9, 1985
Age: 25
Place of Birth: Fukuoka pref., Japan
Sex: Male
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Educational Background

- April, 2010 – Present Ph.D. student, Kyoto University,
Graduate School of Engineering, Department of Electrical Engineering
Supervisor: Takashi Hikihara
- March, 2010 M.E., Kyoto University,
Graduate School of Engineering, Department of Electrical Engineering
Supervisor: Takashi Hikihara
Thesis: A numerical study on phase structure of nonlinear dynamical systems
based on power spectrum
- March, 2008 B.E., Kyoto University,
Undergraduate School of Engineering, School of Electrical and Electronic Engineering
Supervisor: Takashi Hikihara
Thesis: A numerical study on stability problems of AC/DC power system
based on differential-algebraic equation

Current Research Topics (Keywords)

[1] Power System [2] Power Electronics [3] Nonlinear Dynamics

Work Experience

- April, 2010 – Present Research Assistant (G-COE; Global Center of Excellence)
at Department of Electrical Engineering,
Graduate School of Engineering, Kyoto University, Japan

October, 2010 – January, 2011 Teaching Assistant of Electrical and Engineering Advanced Practice B
at School of Electrical and Electronic Engineering,
Undergraduate School of Engineering, Kyoto University
"Power Supply and Electronics", 6 hours a week

May, 2009 – February, 2010 Tutor for a foreign student
at School of Electrical and Electronic Engineering,
Undergraduate School of Engineering, Kyoto University

August 17, 2009 Research Assistant (Department of Electrical Engineering)
at Department of Electrical Engineering,
Graduate School of Engineering, Kyoto University, Japan
"Kids Science School in Summer Vacation", 1 day

October, 2008 – January, 2009 Teaching Assistant of Electrical and Engineering Advanced Practice B
at School of Electrical and Electronic Engineering,
Undergraduate School of Engineering, Kyoto University
"Power Supply and Electronics", 6 hours a week

May, 2008 – February, 2009 Tutor for a foreign student
at School of Electrical and Electronic Engineering,
Undergraduate School of Engineering, Kyoto University

April, 2008 – July, 2008 Teaching Assistant of "Power Electronics" , 1.5 hours a week
at School of Electrical and Electronic Engineering,
Undergraduate School of Engineering, Kyoto University

Institutes

February, 2010 – Present The Institute of System, Control and Information Engineers (ISCIE),
Student Member

March, 2008 – Present The Institute of Electronics, Information and Communication Engineers (IEICE),
Student Member

Published Paper

1. M. Minami and T. Hikiyama, (in japanese) (submitted 14th Dec. 2011).
2. M. Minami and T. Hikiyama, Reconstitution of Potential Function by Power Spectra of Trajectories in Nonlinear Dynamical Systems, IEICE EA, E95-A (2), 613–616 (2012).

Award

1. The Institute of Systems, Control and Information Engineers, Encouraging prize (May/2012)
2. Kansai-section Joint Convention of Institutes of Electrical Engineering 2008, Encouraging prize (Apr./2009)

Conference Presentations

[International Conference]

1. M. Minami, T. Hikiyara, A Spectral Reconstitution Method of Potential Function in Dynamical System, 2009 International Symposium on Nonlinear Theory and its Applications (NOLTA2009), Modeling and Simulation I B3L-D, Sapporo, Japan, October 20, 2009.

[Domestic Conferences]

1. M. Minami and T. Hikiyara, Tracking and Linkage to Local Power Network for Distributed Power System under Passivity-Based Control(in japanese), the 56th Annual Conference of the Institute of Systems, Control and Information Engineers (ISCIE), M13-1, Kyoto Terrsa, May 21, 2012(accepted).
2. M. Minami, M. Omuro, and T. Hikiyara, A Numerical Study on Linkage Control between Distributed Generation and Power System Network Based on Passivity Characteristics(in japanese), Technical Committee on Energy Engineering in Electronics and Communications(EE), EE2011-27, Japan Society for the Promotion of Machine Industry, November 18, 2011.
3. M. Minami, Y. Susuki, and T. Hikiyara, Analysis of Recurrence in High-Dimensional Nonlinear System Based on Power Spectra of Finite-Time Trajectories, the 55th Annual Conference of the Institute of Systems, Control and Information Engineers (ISCIE), H45-5, Osaka University, May 19, 2011.
4. M. Minami, Y. Susuki, and T. Hikiyara, Analysis of Recurrence in Dynamical System Based on Power Spectra of Finite-Time Trajectories, IEICE, A-2-15, Tokyo City University, March 15, 2011.
5. M. Minami and T. Hikiyara, An Analysis on Phase Structure Based on Level Set of Power Spectrum(in japanese), the 54th Annual Conference of the Institute of Systems, Control and Information Engineers (ISCIE), F362, Kyoto Research Park, May 21, 2010.
6. T. Hikiyara, R. Uetsuki, and M. Minami, (Title is only Japanese), Kansai-section Joint Convention of Institutes of Electrical Engineering, G4-4, Osaka University, November 7, 2009.
7. M. Minami and T. Hikiyara, (Title is only Japanese), Kansai-section Joint Convention of Institutes of Electrical Engineering, P-3, Osaka University, November 7, 2009.
8. M. Minami and T. Hikiyara, An Analysis on Global and Local Phase Structure of Duffing Equation Based on Power Spectrum Distribution(in japanese), IEICE, NLP2008-76, December 9, 2008.
9. M. Minami and T. Hikiyara, (Title is only Japanese), Kansai-section Joint Convention of Institutes of Electrical Engineering, G1-6, Kyoto Institute of Technology, November 9, 2008.
10. M. Minami and T. Hikiyara, An Analysis on Global Phase Structure of Duffing Equation Based on Power Spectrum Distribution(in japanese), NOLTA Autumn Seminar 'Chaos Phenomenology', September 25, 2008.
11. Y. Susuki, M. Minami, and T. Hikiyara, A Study on Coexisting Solutions in Differential-Algebraic Equation for AC/DC Power System(in japanese), IEICE, A-2-6, The University of Kitakyushu, March 19, 2008.