

Masataka MINAMI

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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
Thesis: Studies on Passivity-Based Control and Phase Synchronization
in Linkage of Distributed Generation to Power System Network
- 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

3. M. Minami and T. Hikiyara, Reconstitution of Potential Function by Power Spectra of Trajectories in Nonlinear Dynamical Systems, IEICE EA, E95-A (2), 613–616 (2012).

Award

1. Center of Excellence for Education and Research on Photonics and Electronics Sciences and Engineering, Best Poster prize (November/2012)
2. The Institute of Systems, Control and Information Engineers, Encouraging prize (May/2012)
3. Kansai-section Joint Convention of Institutes of Electrical Engineering 2008, Encouraging prize (April/2009)

Conference Presentations

[International Conference]

1. M. Minami and 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, Passivity-Based Control for Tracking and Phase Synchronization for Linkage in Power System Network with Distributed Generation – Transient Behavior under Load Change – (in Japanese), IEEJ, ECT-12-078, Kumamoto University, October 5, 2012.
2. M. Minami and T. Hikiyara, A Numerical Study on Tracking and Linkage in Power System Network with Distributed Generation under Voltage Sag (in Japanese), 2012 IEE-Japan Industry Applications Society Conference, R1-2-2:1-25, Chiba Institute of Technology, August 21st, 2012.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.

Seminar and Symposium

[International]

1. M. Minami , Passivity-Based Control for Linkage Method between Power Network and Distributed Power Source, 5th GCOE International Symposium on Photonics and Electronics Science and Engineering, P-47, Katsura campus, Kyoto University, March 9, 2012 (poster).

[Domestic]

1. M. Minami , (Title is only Japanese), GCOE Seminar dojo, A-20, Awaji Yumebutai International Conference Center, November 17, 2012 (poster).
2. M. Minami , (Title is only Japanese), GCOE Seminar dojo, B-10, Kansai Seminar House, September 10, 2011 (poster).
3. M. Minami , (Title is only Japanese), GCOE Seminar dojo, B-25, Hotel Wellness Yamaji, September 4, 2010 (poster).
4. M. Minami , (Title is only Japanese), Nonlinear Problem Seminar, Tokyo Denki University, November 28, 2009.
5. M. Minami , (Title is only Japanese), GCOE Seminar dojo, B-20, Awaji Yumebutai International Conference Center, October 31, 2009 (poster).
6. 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.