



Naohiro Hayashibara

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WORK EXPERIENCE



KYOTO SANGYO UNIVERSITY, Associate Professor

Principle investigator. PhD supervisor.

Apr 2013 - current



KYOTO SANGYO UNIVERSITY, Assistant Professor

Tenure-track position. Taught in graduate/undergraduate courses.

Apr 2008 - Mar 2013



TOKYO DENKI UNIVERSITY, Research Associate

Faculty member. Taught in undergraduate courses. Working with Prof. Makoto Takizawa.

Apr 2005 - Mar 2008



JAPAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY, Post-doctoral Fellow Jul 2004 - Mar 2005

Research project on failure detectors. This research has been conducted as a program for the "Fostering Talent in Emergent Research Fields" in Special Coordination Funds for Promoting Science and Technology by Ministry of Education, Culture, Sports, Science and Technology, Japan.

EDUCATION



PHD. INFORMATION SCIENCE

Japan Advanced Institute of Science and Technology

PhD Dissertation: Accrual Failure Detectors. This research has been conducted under supervision of Prof. Takuya Katayama and Assoc. Prof. Xavier Défago.

Jun 2004



MSC. INFORMATION SCIENCE

Japan Advanced Institute of Science and Technology

Mar 2001

LANGUAGE, INTERESTS, & PROFESSIONAL ACTIVITY

Language



Native Speaker



Professional Proficiency



Basic Level

Interests

Distributed Systems

Dependable Systems

Meta-heuristic Algorithms

Bio-inspired Algorithms

Professional Activity

General Co-Chair, NBIS-2021

Program Co-Chair, BWCCA-2021

Program Co-Chair, BWCCA-2020

Program Co-Chair, NBIS-2020

Publicity Chair, DASC-2020

Program Co-Chair, DASC-2019

Program Committee, PRDC-2020

SELECTED PUBLICATIONS

1. K. Shinki, K. Sugihara, N. Hayashibara, "Message broadcasting by opportunistic communication on unit disk graphs", *Evolutionary Intelligence*, 13(1), pp. 93-102, 2020.

2. K. Sugihara, N. Hayashibara, "Target exploration by Nomadic Lévy walk on unit disk graphs", *Int. J. Grid Util. Comput.*, 11(2), pp. 221-229, 2020.
3. T. Kurokawa, N. Hayashibara, "Performance evaluation of data replication protocol based on Cuckoo search in mobile ad-hoc networks", *Internet of Things*, vol. 11, 100223, 2020.
4. K. Shinki, N. Hayashibara, "Resource Exploration Using Levy Walk on Unit Disk Graphs", In *Proc. of AINA 2018*, pp. 149-156, 2018.
5. K. Imae, N. Hayashibara, "ChainVoxel: A Data Structure for Scalable Distributed Collaborative Editing for 3D Models", In *Proc. of DASC'16*, pp. 344-351, 2016.
6. Y. Tanaka, N. Hayashibara, T. Enokido, M. Takizawa, "A mobile agent model for fault-tolerant manipulation on distributed objects", *Cluster Computing*, 10(1), pp.81 - 93, 2007.
7. S. Itaya, N. Hayashibara, T. Enokido, M. Takizawa, "Distributed Coordination Protocols to Realize Scalable Multimedia Streaming in Peer-to-Peer Overlay Networks", In *Proc. of ICPP'06*, pp.569-576, 2006.
8. P. Urbán, X. Défago, N. Hayashibara, T. Katayama, "Definition and Specification of Accrual Failure Detectors", In *Proc. of DSN'05*, pp. 206-215 , 2005.
9. N. Hayashibara, X. Défago, R. Yared, T. Katayama, "The φ Accrual Failure Detector", In *Proc. of SRDS'04*, pp. 66 - 78, 2004.
10. P. Urbán, N. Hayashibara, A. Schiper, T. Katayama, "Performance Comparison of a Rotating Coordinator and a Leader Based Consensus Algorithm", In *Proc. of SRDS'04*, pp. 4 - 17, 2004.