

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

Apr 2008 - Mar 2013

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

TDU

TOKYO DENKI UNIVERSITY, Research Associate

Apr 2005 - Mar 2008

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

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



Research project on failure detectors. This research was 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

Jun 2004



Japan Advanced Institute of Science and Technology

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



MSC. INFORMATION SCIENCE

Mar 2001

Japan Advanced Institute of Science and Technology

SKILLS & INTERESTS



Native Speaker Professional Proficiency Basic level Distributed Systems.
Dependable Systems.
Meta-heuristic Algorithms.
Bio-inspired Algorithms.

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. 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.
- 3. 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.

- 4. 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.
- 5. 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.
- 6. P. Urbán, X. Défago, N. Hayashibara, T. Katayama, "Definition and Specification of Accrual Failure Detectors", In Proc. of DSN'05, pp. 206-215, 2005.
- 7. N. Hayashibara, X. Défago, R. Yared, T. Katayama, "The Φ Accrual Failure Detector", In Proc. of SRDS'04, pp. 66 78, 2004.
- 8. 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.