Naohiro Hayashibara

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WORK EXPERIENCE

KYOTO SANGYO UNIVERSITY, *Associate Professor* Apr 2013 - current
Principle investigator. PhD supervisor.

KYOTO SANGYO UNIVERSITY, *Assistant Professor* Apr 2008 - Mar 2013
Tenure-track position. Taught in graduate/undergraduate courses.

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* Jul 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, & PROFESSIONAL ACTIVITY

Skills
- 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.