

KAUSHALYA MADHAWA

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EDUCATION

Tokyo Institute of Technology

PhD candidate

October 2016 - Present

Tokyo

Advisor: Tsuyoshi Murata

PhD in Computer Science (Research topic: Active exploration on networks)

University of Colombo - School of Computing

Master of Computer Science

January 2013 - January 2015

Colombo, Sri Lanka

Thesis: “Machine Learning for Determining the Newsworthiness of Microblogs”

RESEARCH EXPERIENCE

Tokyo Institute of Technology

Research Assistant

January 2017 - Present

Tokyo

- Member of CREST Deep project, funded by Japan Science and Technology Agency (JST).
- Research on compressing deep neural networks.
- Study of adversarial attacks on compressed and compact deep neural networks.

Preferred Networks Inc.

Research Intern

August 2018 - Present

Tokyo

- Member of Chainer-Chemistry team.

LIRNEasia

Researcher

April 2014 - March 2016

Colombo, Sri Lanka

- As a member of the Big Data for Development (BD4D) project involved in analysing a large dataset of anonymized call detail records (CDR) obtained from multiple mobile operators in Sri Lanka.
- Performed analysis on the social graph of millions of subscribers.

SELECTED PUBLICATIONS

- **Kaushalya Madhawa** and Tsuyoshi Murata, “Exploring Partially Observed Networks with Non-parametric Bandits”, Complex Networks and Their Applications VII, Cambridge, UK, 2018
- **Kaushalya Madhawa**, Choong Jun Jin, Arie Wahyu Wijayanto, and Tsuyoshi Murata, “Robustness of Compressed Convolutional Neural Networks”, Workshop on Big Data for CyberSecurity (BigCyber-2018), IEEE International Conference on Big Data, Seattle, Washington, 2018
- **P.K.K.Madhawa** and A.S. Athukorale, “A Robust Algorithm for Determining the Newsworthiness of Microblogs”, International Conference on Advances in ICT for Emerging Regions (ICTer), Colombo, Sri Lanka, 2015
- **P.K.K. Madhawa**, U.R.V. Sandaruwan, M.S. Jeevananda, P.M.B.C. Malmi and K. Wimalawarne, “HYDRA: A machine learning toolkit for massively parallel systems”, CS & ES Research Conference, Colombo, Sri Lanka, 2011.

AWARDS AND HONORS

- Japanese Government Scholarship (MEXT) for doctoral studies, 2016-2019.
- Community teaching assistant of “Heterogeneous Parallel Programming” course on Coursera, 2013.
- 50th in IEEEExtreme 2009 programming competition.
- Bronze medal, Sri Lankan Physics Olympiad 2006.
- National rank: 28, Advanced Level (Physical Sciences).

TECHNICAL STRENGTHS

Programming Languages	Python, Java, C/C++, R
Deep Learning frameworks	Chainer, PyTorch, Caffe, Tensorflow
Distributed computing	Apache Hadoop, Apache Pig, Apache Giraph, Apache Hive