

Dulanga Weerakoon

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CONTACT INFORMATION

Name: Weerakoon Mudiyanseelage Dulanga Kaveesha Weerakoon
Title: Mr.
Office mailing address: Living Analytics Research Centre (LARC), Level 5, School of Information Systems, Management University, 80 Stamford Rd, Singapore 178902
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Contact number: +65 9081 1084
Current position: PhD student (Advisor: Prof. Archan Misra, Co-Advisor: Dr. Vigneshwaran Subbaraju)

EMPLOYMENT HISTORY

PhD Research Intern Jan 2023-Apr 2023
Institute of High Performance Computing, A*STAR, Singapore
Advisor: Dr. Vigneshwaran Subbaraju

Research Engineer July 2018-July 2019
Living Analytics Research Centre (LARC), Singapore Management University
Advisor: Prof. Archan Misra

R&D Engineer Feb 2018-June 2018
Synopsys, Sri Lanka

Research Assistant Aug 2016 - Jan 2017
LiveLabs, Singapore Management University
Advisor: Prof. Archan Misra

Visiting Instructor Mar 2016-Apr 2016
University of Moratuwa, Sri Lanka

ACADEMIC QUALIFICA- TIONS

Ph.D. in Computer Science 2019-Current
Singapore Management University
Advisor: Prof. Archan Misra
Co-Advisor: Dr. Vigneshwaran Subbaraju
GPA: 3.88

B.Sc. Engineering Honours 2014-2018
University of Moratuwa, Sri Lanka
Major: Electronic & Telecommunication Engineering GPA: 3.61

RESEARCH INTERESTS

Human-AI Collaborative Systems, Multi-Modal Sensing, Mobile and Pervasive Computing, Deep Learning in Embedded Systems

PUBLICATIONS

Weerakoon, D., Subbaraju, V., Tran, T. and Misra, A., 2023, January. Demonstrating Multi-modal Human Instruction Comprehension with AR Smart Glass. 15th International Conference on COMMunication Systems NETWORKS (COMSNETS 2023). [in press]

Weerakoon, D., Subbaraju, V., Tran, T. and Misra, A., 2022, October. SoftSkip: Empowering Multi-Modal Dynamic Pruning for Single-Stage Referring Comprehension.

sion. In *Proceedings of the 30th ACM International Conference on Multimedia* (pp. 3608-3616).

Weerakoon, D., Subbaraju, V., Tran, T. and Misra, A., 2022. Cosm2ic: Optimizing real-time multi-modal instruction comprehension. *IEEE Robotics and Automation Letters*, 7(4), pp.10697-10704.

Weerakoon, D., Subbaraju, V., Karumpulli, N., Tran, T., Xu, Q., Tan, U., Lim, JH., and Misra, A., 2020. Gesture Enhanced Comprehension of Ambiguous Human-to-Robot Instructions. In *Proceedings of the 2020 International Conference on Multimodal Interaction (ICMI '20)*.

Abdelzaher, T., Hao, Y., Jayarajah, K., Misra, A., Skarin, P., Yao, S., **Weerakoon, D.** and Árzén, K.E., 2020. Five challenges in cloud-enabled intelligence and control. *ACM Transactions on Internet Technology (TOIT)*, 20(1), pp.1-19.

Yao, S., Hao, Y., Zhao, Y., Piao, A., Shao, H., Liu, D., Liu, S., Hu, S., **Weerakoon, D.**, Jayarajah, K. and Misra, A., 2019, July. Eugene: Towards deep intelligence as a service. In *2019 IEEE 39th International Conference on Distributed Computing Systems (ICDCS)* (pp. 1630-1640). IEEE.

Weerakoon, D., Jayarajah, K., Tandriansyah, R. and Misra, A., 2019, July. Resilient Collaborative Intelligence for Adversarial IoT Environments. In *2019 22th International Conference on Information Fusion (FUSION)* (pp. 1-8). IEEE.

Misra, A., **WEERAKOON MUDIYANSELAGE, D.K.W.** and Jayarajah, K., 2019. The challenge of collaborative iot-based inferencing in adversarial settings.

Misra, A., Jayarajah, K., **Weerakoon, D.**, Tandriansyah, R., Yao, S. and Abdelzaher, T., 2019, May. Dependable machine intelligence at the tactical edge. In *Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications* (Vol. 11006, p. 1100608). International Society for Optics and Photonics.

Jayarajah, K., Subbaraju, V., **Weerakoon, D.**, Misra, A. and Athaide, N., 2017, May. Discovering anomalous events from urban informatics data. In *Ground/Air Multisensor Interoperability, Integration, and Networking for Persistent ISR VIII* (Vol. 10190, p. 101900F). International Society for Optics and Photonics.

HONORS & AWARDS

2nd place in Kaggle competetion for Product Detection

Hosted by Shopee, Singapore

2nd place out of 646 teams

2nd place in Kaggle competetion for Sentiment Analysis

Hosted by Shopee, Singapore

2nd place out of 317 teams

Dean's list in Semesters 6 & 8 of B.Sc. degree

Semester GPA: 4.00

Winner of Second Prize, Ideasinc startingUp 2016 Hackathon

Organized by Nanyang Technopreneurship Center, Nanyang Technological University, Singapore

CERTIFICATIONS

CS50x: Introduction to Computer Science I

Offered by HarvardX through edx.org in 2013

6.002x: Circuits and Electronics

Offered by MITx through edx.org in 2013

PHYS102x: Electricity and Magnetism

Offered by RiceX through edx.org in 2013

**EXTRA
INTERESTS &
AWARDS**

Team member of SMU Table Tennis Team

Won 2nd place in Institute-Varsity-Polytechnic games (IVP), Singapore.

Team member of University of Moratuwa Table Tennis Team

Recipient of extra-curricular colors awards