Dulanga Weerakoon

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CONTACT INFORMATION

Name: *Weerakoon Mudiyanselage Dulanga Kaveesha Weerakoon*
Title: *Mr.*
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Email: *mweerakoon.2019@phdcs.smu.edu.sg*
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-Jan 2024*
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 QUALIFICATIONS

Ph.D. in Computer Science *2019-Current*
Singapore Management University
Advisor: Prof. Archan Misra
GPA: 3.89

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). [Demo paper]*

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

sion. In Proceedings of the 30th ACM International Conference on Multimedia (pp. 3608-3616). [Full paper]

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.* [Full Paper]

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).* [Full paper]

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

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.* [Full paper]

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.* [Full paper]

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

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.* [Full paper]

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.* [Full paper]

HONORS & AWARDS	**Postgraduate Doctoral Fellowship in Computing** *Offered to the exceptionally qualified students at SMU based on research outcomes*

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

CERTIFI-CATIONS

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