# Sri Lanka Institute of Information Technology
## Curriculum Vitae for Academic Staff

| | | | | | |
|---|---|---|---|---|---|
| 1. | NAME | Surname | Fernando | | |
| | | First Name | Harinda | | |
| 2. | DEPARTMENT/SCHOOL | Computer Systems Engineering | | | |
| 3. | FACULTY | Computing | | | |
| 4. | PRESENT RANK | Assistant Professor | | Since | 2023 |

## 5. EDUCATION

| University or Institution | Degree | Subject Area | Dates |
|---|---|---|---|
| Deakin University | PhD | Networking, Cybersecurity, IOT | 2008 - 2013 |
| Deakin University | BBIT (Hons) | IT | 2004 - 2006 |
| ITS | Diploma in CIS | IT | 2002 - 2003 |
| | | | |

| | | |
|---|---|---|
| Doctoral Degree | Title of the Dissertation | Enhancing RFID Performance and Security in Networked Environments |
| | Supervisor | Prof Jemal Abawajy |

| Special Professional Qualifications (e.g. (Eng., etc.) | Qualification | Name of the Institution | Year |
|---|---|---|---|
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## 6. EMPLOYMENT RECORD

*a) Prior to joining SLIIT*

| University, Company or Organization | Rank or Title | Period |
|---|---|---|
| APIIT | Head - Cybersecurity and Cloud Computing Research Lab | 2021 - 2022 |
| APIIT | Final Year Project Coordinator - School of Computing | 2017 - 2022 |
| APIIT | Senior Lecturer | 2014 - 2022 |
| APIIT | Head of School – School of Computing | 2016 - 2019 |
| APIIT | Award Coordinator – School of Computing | 2014 - 2016 |

*b) At SLIIT*

| Rank or Title | Period |
|---|---|
| Assistant Professor | 2023 - Present |
| Program Coordinator (MSc – Cyber Security) of the Faculty of Computing | 2023 - Present |
| Senior Lecturer (HG) | 2022 - 2023 |
| Program Coordinator (MSc - Information Systems) of the Faculty of Computing | 2022 - 2023 |
| Coordinator CDAP Module of the Faculty of Computing | 2022 – 2023 |

## 7. TEACHING (provide information in reverse chronological order)

*(a) Areas of special interest and accomplishments (**max. one page**)*

I am a senior academic with over 18 years of experience in tertiary education, having worked with universities in Sri Lanka, the United Kingdom, and Australia. My expertise lies in Cyber Security, Networking, and Machine Learning, with a strong foundation in teaching, research, and academic leadership. Throughout my career, I've supervised more than 150 undergraduate and 30 postgraduate dissertations, underscoring my dedication to academic mentorship and student development. I have led initiatives in curriculum design, revision, and localization, ensuring that academic programs are both globally relevant and locally responsive. My work in transnational academic partnerships has enabled meaningful collaboration between institutions across borders. I also have extensive experience in higher education leadership, including strategic planning, team management, and academic administration, which has contributed to the growth and innovation of the institutions I've served.

*(b) Courses Taught at SLIIT*

| Session (Term-Year) | Course Code | Credits | Contr. (%) | Lect. (Hrs/ wk) | Tutorial (Hrs/ wk) | Labs (Hrs/ wk) | Enrollment |
|---|---|---|---|---|---|---|---|
| 1-2025 | IE3032 | 4 | 100 | 2 | 1 | 0 | 70 |
| 1-2025 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 1-2025 | IE4090 | 4 | 100 | | | | |
| 1-2025 | IE5022 | 4 | 50 | 2 | 0 | 0 | 151 |
| 2-2025 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 2-2025 | IE3062 | 4 | 100 | 2 | 1 | 0 | 180 |
| 1-2024 | IE3032 | 4 | 100 | 2 | 1 | 0 | 70 |
| 1-2024 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 1-2024 | IE4090 | 4 | 100 | | | | |
| 1-2024 | IE5022 | 4 | 50 | 2 | 0 | 0 | 151 |
| 2-2024 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 2-2024 | IE3062 | 4 | 100 | 2 | 1 | 0 | 180 |
| 1-2023 | IE3032 | 4 | 100 | 2 | 1 | 0 | 70 |
| 1-2023 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 1-2023 | IE5022 | 4 | 100 | 2 | 0 | 0 | 151 |
| 2-2023 | IE2042 | 4 | 100 | 2 | 1 | 0 | 96 |
| 2-2023 | IE3062 | 4 | 100 | 2 | 1 | 0 | 180 |
| 2-2023 | IT4010 | 16 | - | 0 | 5 | 0 | 1000 + |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1-2022 | IE2052 | 4 | 100 | 2 | 1 | 0 | 70 |
| 1-2022 | IE2042 | 4 | 50 | 2 | 1 | 0 | 96 |
| 2-2022 | SE4030 | 4 | 100 | 2 | 1 | 0 | 355 |
| 2-2022 | IE2042 | 4 | 50 | 2 | 1 | 0 | 151 |
| 2-2022 | IT4010 | 16 | - | 0 | 5 | 0 | 1000 + |
| | | | | | | | |

*(c) Courses taught prior to joining SLIIT –* ***Last 3 years (Full details available in attached service letter)***

| Session (Term-Year) | Course Code | Credits | Contr. (%) | Lect. (Hrs/ wk) | Tutorial (Hrs/ wk) | Labs (Hrs/ wk) | Enrollment |
|---|---|---|---|---|---|---|---|
| Oct – 21 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 21 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 21 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| Oct – 21 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Oct – 21 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| July – 21 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| July – 21 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| July – 21 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| July – 21 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| July – 21 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Mar - 21 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Mar – 21 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Mar – 21 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| Mar – 21 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Mar – 21 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Oct – 20 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 20 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 20 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Oct – 20 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Jul – 20 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Jul – 20 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Jul – 20 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| Jul – 20 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Jul – 20 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Mar - 20 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Mar - 20 | COMP40002 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Mar - 20 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Mar - 20 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Oct – 19 | COMP40002 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 19 | COCS40683 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Oct – 19 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| Oct – 19 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Oct – 19 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |
| Jul – 19 | COCS40683 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Jul – 19 | COCS40683 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Jul – 19 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Jul – 19 | COIS61028 - 2 | 22.5 | 100 | 1 | 1 | | Not Available |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mar – 19 | COCS40683 - 1 | 15 | 100 | 2 | | 2 | Not Available |
| Mar – 19 | COCS40683 - 2 | 15 | 100 | 2 | | 2 | Not Available |
| Mar – 19 | COCS60667 | 15 | 100 | 1 | | 2 | Not Available |
| Mar – 19 | COIS61028- 1 | 22.5 | 100 | 1 | 1 | | Not Available |
| Mar – 19 | COIS61028- 2 | 22.5 | 100 | 1 | 1 | | Not Available |

*(d) Graduate Students Supervised*

| Student Name | Degree | Supervisor | Co-supervisor(s) | Year | |
|---|---|---|---|---|---|
| | | | | From | To |
| IDDAMALGODA I.D.S.M | MSc - CS | Dr. Harinda Fernando | N/A | 2024 | 2025 |
| LAKSHAN D P M | MSc - CS | Dr. Harinda Fernando | N/A | 2024 | 2025 |
| R. SHIVAKUMAR | MSc - CS | Dr. Harinda Fernando | N/A | 2024 | 2024 |
| S Y Jagodaarachchi | MSc - CS | Dr. Harinda Fernando | N/A | 2024 | 2024 |
| Kuruparan. S | MSc - CS | Dr. Harinda Fernando | N/A | 2024 | 2024 |
| Mayadunne S.U.A. | MSc - IT | Dr. Harinda Fernando | N/A | 2024 | 2024 |
| N. G. Croos | MSc - IT | Dr. Harinda Fernando | N/A | 2024 | 2024 |
| M.R.M Rizmi | MSc - CS | Dr. Harinda Fernando | N/A | 2023 | 2024 |
| Herath H.M.M.B.B | MSc - IM | Dr. Harinda Fernando | N/A | 2023 | 2024 |
| M.S.ASHRAJ | MSc - IS | Dr. Harinda Fernando | N/A | 2023 | 2023 |
| Wanasundara W. M. D. M. | MSc - IS | Dr. Harinda Fernando | N/A | 2023 | 2023 |
| B.M.I.U Rathnayaka | MSc - CS | Dr. Harinda Fernando | N/A | 2023 | 2023 |
| M. M. G. Niranjan Neerakumara | MSc - CS | Dr. Harinda Fernando | N/A | 2023 | 2023 |
| C H Jayaweera | MSc - CS | Dr. Harinda Fernando | N/A | 2023 | 2023 |
| Aditya Randesh Abeysinghe | MSc | Dr. Harinda Fernando | Not available | Feb 2021 | Oct 2022 |
| Bowathura Senevirathnage Pesala Sampath | MSc | Dr. Harinda Fernando | Not available | Feb 2021 | Oct 2022 |
| Osanda De Alwis | MSc | Dr. Harinda Fernando | Not available | Jun 2020 | Feb 2021 |
| Tuan Arifdeen Kitchilan Alias Sabreen | MSc | Dr. Harinda Fernando | Not available | Jan 2020 | Sep 2020 |
| Deshan Kuruvita - Aratchy | MSc | Dr. Harinda Fernando | Not available | May 2019 | Jan 2020 |
| Mohammed Farook Mohammed Fahd | MSc | Dr. Harinda Fernando | Not available | May 2019 | Jan 2020 |
| Chanuka Amarasiri Gunawardena | MSc | Dr. Harinda Fernando | Not available | Aug 2017 | Mar 2018 |
| Mohamed lmran Tayeb Hossen | MSc | Dr. Harinda Fernando | Not available | Jan 2017 | Oct 2017 |
| Arambqwattage Sameera Heshan Rodrigo | MSc | Dr. Harinda Fernando | Not available | Jan 2017 | Oct 2017 |
| Mohamed Rifky Mohamed Rifaz | MSc | Dr. Harinda Fernando | Not available | Oct 2016 | Jun 2017 |
| Yanothan Sivasegaram | MSc | Dr. Harinda Fernando | Not available | Oct 2015 | Jul 2016 |
| Sudantha Sulochana Gunawardena | MSc | Dr. Harinda Fernando | Not available | Aug 2014 | Mar 2015 |
| | | | | | |

*(e) Undergraduate Theses Supervised [do not include projects listed under 7(b)]*

*(f) Visiting Lecturer (indicate university / organization and dates)*

Visiting lecturer at BALPP

*(g) Supervision of Post-Doctoral Fellows/Research Engineers/Research Associates (name, rank, period)*

| Name | Rank | Your Role (supervisor/co-supervisor) | Dates |
|---|---|---|---|
| Deemantha Siriwardana | Lecturer | Supervisor (MPhil) | January - 2024 |
| Niranjan Meegammana | Mphil Student | Supervisor (MPhil) | January - 2025 |
| Kaushalya Rajapakse | Assistant Lecturer | Supervisor (MPhil) | January - 2025 |
| Ayesha Wijesooriya | Assistant Lecturer | Co-Supervisor (MPhil) | February - 2025 |
| Helani Herath | Instructor | Co-Supervisor (MPhil) | November - 2025 |
| Thriyashi Silva | Instructor | Co-Supervisor (MPhil) | November - 2025 |

## 8. SCHOLARLY & PROFESSIONAL ACTIVITIES (provide information in reverse chronological order)

*(a) Areas of special interest and accomplishments (**maximum 2 pages**)*

*(b) Research grants and contracts*

| Sponsor | Your Role (PI/CI) | Project title | Total Funding (Rs.) | Duration |
|---|---|---|---|---|
| SLIIT | PI | Detecting and Mitigating Model Poisoning Attacks in Federated Learning Systems | 500,000 | 1 Year |
| SLIIT | CI | AI-Enabled UAVs and Robotics for Wildfire Detection, Monitoring, and Suppression | 500,000 | 1 Year |
| SLIIT | PI | A Framework for Improving Youth Social Media Users' Cyber-Risk Profile | 500,000 | 1 Year |
| SLIIT | CI | Performance Optimized IOT Edge Device Attack Detection Employing Deep Learnin | 400,000 | 1 Year |
| SLIIT | PI | Use of Privacy-Preserving Federated Learning in Healthcare Systems for Automated Diagnosis | 400,000 | 1 Year |

*(c) Invited Presentations (Inviting organization, Year)*

*(e) Other Presentations*

*(g) Conference Contributions (Organizer, Keynote Speaker, Advisory Committee, etc.)*

- Acted as Technical Program Committee Member and Track and Session Chair for 4th International Conference on Advancements in Computing (ICAC) 2022, 2023, 2024 and 2025

## 9. SERVICE TO SLIIT (provide information in reverse chronological order)

*(a) Memberships on committees, including offices held and dates*

| Name of Committee | Your Role (Chair/Member) | Dates |
|---|---|---|
| Cluster Leader – IAS Research Cluster | Chair | June 2024 to current |
| Codefest 2025 – CTF | Coordinator | June 2022 – Jan 2023 |
| Codefest 2024 – CTF | Coordinator | June 2022 – Jan 2023 |
| Codefest 2023 – CTF | Coordinator | June 2022 – Jan 2023 |
| Codefest 2022 – Hackathon | Coordinator | June 2022 – Jan 2023 |
| ICAC 2025 - TPC | Member | June 2025 – Dec 2025 |
| ICAC 2024 - TPC | Member | June 2024 – Dec 2024 |
| ICAC 2023 - TPC | Member | June 2023 – Dec 2023 |
| ICAC 2022 - TPC | Member | June 2023 – Dec 2022 |

(b) *Other service to SLIIT (e.g. program coordinator, etc.), including dates*

| Activity | Dates |
|---|---|
| Program Coordinator (MSc – IT specializing in cyber security) of the Faculty of Computing | 2023 - current |
| Program Coordinator (MSc - Information Systems) of the Faculty of Computing | 2022 |
| Coordinator CDAP Module of the Faculty of Computing | 2022 |
| Coordinator – Council Academia 2.0 Status for SLIIT | 2022 |
| | |

## 10. SERVICE TO THE COMMUNITY (provide information in reverse chronological order)

*(a) Memberships on scholarly societies, including offices held and dates*

*(b) Memberships on professional societies, including offices held and dates*

- HEA - Fellow
- IEEE – Senior Member
- IET – Member

*(c) Memberships on scholarly committees, including offices held and dates*

*(d) Memberships on other committees, including offices held and dates*

*(e) Editorships (list journal and dates)*

*(f) Reviewer (journal, agency, etc. including dates)*

- Elsevier Journals
  - Blockchain: Research and Applications
  - Computer Communications
  - Computer Networks
  - Expert Systems with Applications

    - Journal of Information Security and Applications
- Ceylon Journal of Science
- The Journal of Universal Computer Science
- PeerJ Computer Science
- Current Scientia – Vidyodaya Journal of Science
- Journal of the National Science Foundation of Sri Lanka

*(g) External examiner (indicate universities and dates)*

*(h) Consultant (indicate organization and dates)*

*(i) Other service to the community*

## 11. AWARDS AND DISTINCTIONS (provide information in reverse chronological order)

*(a) Awards for Teaching (indicate name of award, awarding organizations, date)*

*(b) Awards for Scholarship (indicate name of award, awarding organizations, date)*

*(c) Awards for Service (indicate name of award, awarding organizations, date)*

*(c) Other Awards and Honours*

## 12. OTHER RELEVANT INFORMATION (*Maximum one Page*)

# Publications Record

Date: 16/1/2023

SURNAME: Fernando FIRST NAME: Harinda

Google Scholar: Total Citations = 89; h-index = 5

Note: Publications should be listed in reverse chronological order with names of all authors, article title, publication name, volume number, page numbers, year of publication, etc. If available, the publication DOI may be included.

## 1. REFEREED PUBLICATIONS IN INDEXED JOURNALS (under this section only refereed publications appearing in the UGC list of recognized indexing systems should be included)

*(a) Journals*

1. F. Mukti Wibowo, M. Z. Nafan, M. A. Gustalika, H. Fernando, M. Hussain, and N. A. Sahadun, "Lightweight String Similarity Approaches for Duplicate Detection in Academic Titles", *JIWE*, vol. 4, no. 3, pp. 416–426, Oct. 2025.
2. H. Fernando, S. Mohottala, M. Jayanetti, and C. Thambiliyagodage, "Assessing the Efficacy of Machine Learning Algorithms in Predicting Critical Properties of Gold Nanoparticles for Pharmaceutical Applications," Bionanoscience, vol. 15, no. 3, pp. 1–30, 2025.
3. N. W. Meegammana and H. Fernando, "AI-Driven Adaptive Security for Sensor Networks: Next-Generation Firewalls for Attack Detection," Int. J. Distrib. Sens. Networks, vol. 2025, no. 1, p. 5973480, 2025.
4. H. M. S. Migara, M. D. B. Sandakelum, D. Maduranga, D. Kumara, H. Fernando, and K. Abeywardena, "A Deep Learning-Based Dual-Model Framework for Real-Time Malware and Network Anomaly Detection with MITRE ATT and CK Integration.," Int. J. Adv. Comput. Sci. Appl., vol. 16, no. 7, 2025.
5. D. H. Senevirathna, W. M. M. Gunasekara, K. Gunawardhana, M. F. F. Ashra, H. Fernando, and K. Y. Abeywardena, "Enhancing Organizational Threat Profiling by Employing Deep Learning with Physical Security Systems and Human Behavior Analysis.," Int. J. Adv. Comput. Sci. Appl., vol. 16, no. 6, 2025.
6. B. HM, M. HKTP, J. SS, S. AKSR, H. Fernando, and S. Lokuliyana, "Real Time Accident Detection and Emergency Response Using Drones, Machine Learning and LoRa Communication.," Int. J. Adv. Comput. Sci. Appl., vol. 16, no. 6, 2025.
7. A. K. S. Samararathna, H. Fernando, and S. Lokuliyana, "Real Time Accident Detection and Emergency Response Using Drones, Machine Learning and LoRa Communication," Int. J. Adv. Comput. Sci. Appl., 2025.
8. H. F. Niranjan W Meegammana, "Securing IoT Servers: Strategies for Employing Shallow and Deep Neural Networks," Int. J. Adv. ICT Emerg. Reg., vol. 18, no. 2, 2025.
9. R. Senanayake, B. Weerasekara, H. T. A. Siriwardana, N. Ekanayake, H. Fernando, and T. Kelegama, "Smart Navigation System for Supermarket," Int. Res. J. Innov. Eng. Technol., vol. 7, no. 10, p. 543, 2023, [Online]. Available: https://irjiet.com/Volume-7/Issue-10-October-2023/Smart-Navigation-System-for-Supermarket/1902
10. W. C. Y. S. Lowe, A. P. O. Kithma, H. Fernando, and L. Abeywardhana, "Integrated Human-Proximity and Recognition for Detecting Smart Object Ownership in Organizational Settings," Int. Res. J. Innov. Eng. Technol., vol. 7, no. 10, p. 185, 2023, [Online]. Available: https://irjiet.com/Volume-7/Issue-10-October-2023/Integrated-Human-Proximity-and-Recognition-for-Detecting-Smart-Object-Ownership-in-Organizational-Settings/1850

11. K. H. Vidanage, H. Fernando, and L. Abeywardhana, "Human, Object and Pose Detection for Theft Prevention through Surveillance System," Int. Res. J. Innov. Eng. Technol., vol. 7, no. 11, p. 160, 2023, [Online]. Available: https://irjiet.com/Volume-7/Issue-11-November-2023/Human-Object-and-Pose-Detection-for-Theft-Prevention-through-Surveillance-System/1935
12. J. Abawajy and H. Fernando, "Policy-based SQLIA detection and prevention approach for RFID systems," Comput. Stand. Interfaces, vol. 38, pp. 64–71, 2015.

*(b) Letters to the Editor:*

*(c) Conference Proceedings (full papers)*

1. N. W. Meegammana, N. S. Punchihewa, and H. Fernando, "Proposing Cybercrime Law Reform in Sri Lanka: Insights from Challenges and Experience," in 7th International Research Symposium in Humanities and Social Sciences (IRSHSS): AI in Higher Education: Prospects and Challenges, 2025.
2. Niranjan W Meegammana and H. Fernando, "AI-Driven Anomaly Detection for Climate Hazards in Sri Lanka using CNN-LSTM Autoencoder Models," in 10th International Conference of Sabaragamuwa University of Sri Lanka, 2025.
3. H. Sudusinghe, A. De Silva, I. Abeysinghe, T. De Silva, H. Fernando, and K. Rajapakse, "A Comparative Study of Deep Learning Models for Quality Detection in Soybean and Corn Seeds," in 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT), 2025.
4. A. Faleel, D. Senevirathna, M. Gunasekara, A. Gunawardhana, H. Fernando, and K. Yapa, "Real-Time Integrated Threat Detection System for Network and Endpoint Security," in 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT), 2025.
5. N. Premakanthan, J. Sandamal, N. Dilsara, S. Chathuranga, H. Fernando, and K. Abeywardena, "Robust and Resilient CNNs in Medical Imaging Systems: Detecting, Defending and Evaluating against STM and SIA Adversarial Attacks," in 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT), 2025.
6. P. Nupearachchi, T. Rathnasiri, T. Bandara, M. Wickramasinghe, H. Fernando, and K. Abeywardena, "Machine Learning Based Approach Towards Cyber Insurance and Risk Assessment – Insurance Claim Prediction," in 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT), 2025.
7. W. I. S. Silva, K. L. R. N. Liyanage, S. L. Perera, H. B. I. Dananjaya, H. Fernando, and M. Gamage, "AI-based Detection and Mitigation of Depression using an Integrated Approach," in 16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT), 2025.
8. V. P. E. P. V. Pathirana, D. M. O. C. Senevirathna, S. M. P. U. Sathkumara, N. D. D. Kavindya, S. M. B. Harshanath, and H. Fernando, "PrepMaster: A Comprehensive Web Application for Enhancing Interview Preparedness," in 5th International Conference on Computing and Communication Networks, 2025.
9. N. W. Meegammana and H. Fernando, "Efficient Intrusion Detection on Edge-IoT with Shallow-Deep Hybrid Fusion Neural Networks," in AINTEC '25: Proceedings of the 20th Asian Internet Engineering Conference, 2025, pp. 27–33. [Online]. Available: https://dl.acm.org/doi/10.1145/3763400.3763446
10. N. W. Meegammana and H. Fernando, "Robust DoS Attack Detection for V2X Networks Using RNN Variants with Attention," in 7th International Conference on Advancements in Computing, 2025.
11. M. Karunathilaka, H. Samaraweera, B. A. D. K. . Balachandra, W. S. D. Thenabandu, S. Silva, and H. Fernando, "Precision Agriculture with Centralized IoT-Enabled Greenhouse Management for Sustainable Vanilla Production," in 2025 IEEE 15th Annual Computing and Communication Workshop and Conference (CCWC), 2025, pp. 1194–1201. [Online]. Available: https://ieeexplore.ieee.org/abstract/document/10903954
12. A. Zakey, D. Bawantha, D. Shehara, N. Hasara, K. Y. Abeywardena, and H. Fernando, "A Dual-Branch CNN and Metadata Analysis Approach for Robust Image Tampering Detection," in 2025 13th International Symposium on Digital Forensics and Security (ISDFS), 2025, pp. 1–6. doi:

10.1109/ISDFS65363.2025.11012015.

13. D. H. Senevirathna, W. M. M. Gunasekara, K. Gunawardhana, M. F. F. Ashra, H. Fernando, and K. Y. Abeywardena, "Enhancing Organizational Threat Profiling by Employing Deep Learning with Physical Security Systems and Human Behavior Analysis.," Int. J. Adv. Comput. Sci. Appl., vol. 16, no. 6, 2025.
14. S. S. Weerasinghe, U. W. A. V. N. Dissanayake, K. D. M. Morrison, H. Fernando, and D. Siriwardana, "Reputation Scoring System for IoT Devices," in 9th International Conference on Information Technology Research (ICITR 2024), 2024. doi: 979-8-3315-1142-5/24/.
15. G. E. Manukulasooriya, R. S. I. Munasingha, H. Fernando, H. K. I. Uthpali, A. Yeshani, and D. Siriwardana, "Enhancing Automated Android Application Security through Hybrid Static and Dynamic Analysis Techniques," in 2024 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), 2024, pp. 1–6.
16. I. Kavinda and H. Fernando, "Handwritten Prescription Recognition Using VGG Based Architecture with Bi-LSTM," in 2024 International Research Conference on Smart Computing and Systems Engineering (SCSE), 2024, vol. 7, pp. 1–6.
17. E. Thayalan, A. Arumugavel, S. Ganeshan, M. Dalaxshan, H. Fernando, and K. Rajapakse, "Web Application to predict Skin Disease: An Approach Using Deep Learning Algorithm," in 2024 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), 2024, pp. 1–6.
18. W. Weerasinghe, N. H. Kalupahana, W. Gunathilake, H. Fernando, and S. E. R. Siriwardana, "Intelligent CCTV-Based Motorbike Theft Detection System in Bike Parks with 3D Slot Identification and Posture Monitoring," in 2024 9th International Conference on Information Technology Research (ICITR), 2024, pp. 1–6.
19. N. Praveen, H. Fernando, and M. Gamage, "Machine Learning-Driven Toolkit for Sinhala Text-to-Speech and Spell Checker," in 2024 6th International Conference on Advancements in Computing (ICAC), 2024, pp. 151–156.
20. C. Liyanage, H. Dematgoda, D. Harindi, N. Perera, H. Fernando, and S. Rathnayake, "Machine Learning Based Detection System for Identifying Deepfake Images and Social Bots," in 2024 6th International Conference on Advancements in Computing (ICAC), 2024, pp. 324–329.
21. M. Jayathilaka, H. Weerasinghe, K. Gunawardana, P. Samarasinghe, H. Fernando, and D. Siriwardene, "Design and Implementation of a Secure Documentation System for Robust Document Transfer and Access Control," in 2024 6th International Conference on Advancements in Computing (ICAC), 2024, pp. 270–275.
22. D. Harindi, N. Perera, C. Liyanage, H. Dematagoda, H. Fernando, and S. Rathnayake, "Combating Digital Deception: Machine Learning Approaches for Detecting Political Misinformation and Clickbait on Social Media," in 2024 6th International Conference on Advancements in Computing (ICAC), 2024, pp. 318–323.
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*(d) Conference Proceedings (Abstracts)*

*(d) Other*

## 2. REFEREED PUBLICATIONS IN NON-INDEXED JOURNALS (under this section only refereed publications appearing in indexing systems outside the UGC recognized list should be included)

*(a) Journals*

*(b) Letters to the Editor:*

*(c) Conference Proceedings (full papers)*

*(d) Conference Proceedings (Abstracts)*

*(e) Other*

## 3. NON-REFEREED PUBLICATIONS

*(a) Journals*

*(b) Conference Proceedings*

*(c) Other*

## 4. BOOKS

*(a) Authored*

*(b) Edited*

*(c) Chapters*

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