#### **ICITR 2024**

### **9th International Conference**

Day 02: 06th December 2024

## **Faculty of Information Technology**

University of Moratuwa - Sri Lanka

## $Session \ 8-Technology \ Trends$

**Session Chairs**: Dr. MFM Firdhous and Dr. Maheshi Ruwanthika

**Time** : 2.00 p.m. – 4.20 p.m.

**Venue** : LAB 6, Faculty of Information Technology

| Time                  | Paper ID | Paper Title  |
|-----------------------|----------|--|
| 2.00 p.m. – 2.10 p.m. | 27       | Key Situation Awareness Requirements for Aspirants in the IT<br>Sector in Sri Lanka: An Expert Interview Approach            |
| 2.10 p.m. – 2.20 p.m. | 28       | Artista - A Digital Art Marketplace  |
| 2.20 p.m. – 2.30 p.m. | 44       | Tactile Device for Braille-Based Communication in Inclusive Education  |
| 2.30 p.m. – 2.40 p.m. | 63       | Blockchain in Healthcare: Introducing Novel Proof of Accountability (PoAV) Consensus Algorithm and Custom Blockchain Network |
| 2.40 p.m.– 2.50 p.m.  | 69       | Metaverse to Enhance Experimental Learning in Higher Education   |
| 2.50 p.m. – 3.00 p.m. | 79       | Tacit knowledge-based expert model for decision support in injection mould design  |
| 3.00 p.m. – 3.10 p.m. | 93       | Smartwatch-based Gait Authentication Using Siamese LSTM Networks   |
| 3.10 p.m. – 3.20 p.m. | 99       | Early Prevention of Cardiovascular Disease: A review of technology, risk scoring, and non-invasive methods                   |
| 3.20 p.m. – 3.30 p.m. | 112      | Enhanced Detection of Evil Twin Attacks in Public Wi-Fi<br>Networks Using Machine Learning Algorithms                        |

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|-----------------------|----------|---|
| 3.30 p.m.– 3.40 p.m.  | 132      | A Comprehensive Location-Based Travel Forum and Service<br>Network for Promoting Responsible Tourism and Enhancing<br>Safety in Sri Lanka             |
| 3.40 p.m. – 3.50 p.m. | 133      | CodeSafari: A Customized Mobile Solution for Introducing<br>Programming Concepts to Children  |
| 3.50 p.m. – 4.00 p.m. | 134      | TripTractix: Optimizing Outing Planning with Advanced Computational Techniques  |
| 4.00 p.m. – 4.10 p.m. | 139      | Adaptive Learning System for Enhancing Mathematical<br>Aptitude in English Medium Sri Lanka O-Level Mathematics<br>Education                          |
| 4.10 p.m. – 4.20 p.m. | 125      | Software Quality Assurance Practices Towards Waterfall and<br>Agile Information Systems Projects of BOI Registered<br>Software Companies in Sri Lanka |