

Symposium track: Bioprocess Technology

Oral presentations

Venue: Interactive Lecture Hall (Genesis)

Time	Abstract ID	Abstract Title	Presenting author
10:35 AM	BPT_01	Whole Genome Sequencing of Drought-Tolerant Traditional Rice Varieties	Mallawaarachchi, C.P.
10:47 AM	BPT_05	Estimation of Spinosad Resistance Level in Laboratory Population of Melon Fly, <i>Zeugodacus Cucurbitae</i>	Bandara, N.N.W.
10:59 AM	BPT_06	Analysis of Land Surface Temperature Trends in Mihintale Agricultural Lands Using Landsat 8-9 Level 2 Data	Nadunika, K. A. T.

Poster presentations

Venue: Interactive Lecture Hall (Genesis)

Time	Abstract ID	Abstract Title	Presenting author
11:15 AM	BPT_03	Isolation, Identification, and Characterization of Hydrocarbon Degrading Bacteria from Oil Contaminated Soil.	Gamage, B.G.S.H.
11:22 AM	BPT_07	Isolation, Identification and Characterization of Thermophilic Bacteria from Madunagala Hot Spring In Sri Lanka	Kahawaththa, K. M. C. D
11:29 AM	BPT_08	Isolation and Identification of Beneficial Bacteria from the Mycosphere of <i>Ganoderma Lucidum</i>	Silva, J. S. A.

Symposium track: Electrical and Electronic Technology

Oral presentations

Venue: S201 (Sollertia)

Time	Abstract ID	Abstract Title	Presenting author
10:35 AM	EET-002	Development of a Water Flow Renewable Energy System Based on PVDF Piezoelectric Sensors	Sivendran, S.
10:47 AM	EET-004	Feasibility of Peer-to-Peer Energy Trading, Monitoring, and Control in a University Microgrid	Karunaratna, K.M.M.K
10:59 AM	EET-012	Electrical Field Assisted Cultivation of Edible Mushrooms for Improved Productivity	Ginhuja, G.
11:11 AM	EET-015	Smart Wildfire Detection and Suppression System for Ella Rock, Sri Lanka.	Jayarathne, D.M.G. L. D. N.
11:23 AM	EET-016	Open-Loop and Closed-Loop Motor Control Trainer Kit for Undergraduate Control System Laboratory Applications	Kurukulasooriya, J. K.

Poster presentations

Venue: S201 (Sollertia)

Time	Abstract ID	Abstract Title	Presenting author
11:30 AM	EET-005	Artificial Intelligence Powered Elephant Safety & Collision Prevention System	Dissanayake, D.M.T.P
11:37 AM	EET-006	Transient Stability Prediction For Fot Microgrid Using Machine Learning And Dynamic Simulation	Madhubashana, A.M.C
11:44 AM	EET-008	Neurox: Portable Real-Time Parkinson's Tremor Detection System Using Digital Signal Processing	Chandrarathna, B. P. G. I. R
11:51 AM	EET-010	Ai Powered Predictive Maintenance System for Industrial Hydraulic Units	Gamage, J. G. S. J
11:58 AM	EET-017	Power Signature Analysis for Early Fault Detection in Electrical Loads Using a Power Analyser	Wijesuriya, W. A. R. T.
12:05 PM	EET-013	Smart Glass for Visually Impaired Users	Kothalawala, K.D.A.U.

Symposium track: Food Technology

Oral presentations		Venue: S502 (Sollertia)	
Time	Abstract ID	Abstract Title	Presenting author
10:35 AM	FDT_02	Development and Characterization of Ph-Sensitive Edible Casings Incorporated with Curcumin and Anthocyanins for Freshness Monitoring of Uncooked Chicken Sausages	Nawarathna, B. G. P. K.
10:47 AM	FDT_04	Formulation and Characterisation of Naturally Fermented Rusk Incorporated with Banana Pseudo-Stem Powder and Banana Fruit Powder	Premadasa, K. G. I. L.
10:59 AM	FDT_05	Comparative Evaluation of Physicochemical and Bioactive Properties of Bop and Bopf Black Tea Grades from Seven Major Tea-Growing Regions of Sri Lanka	Sandamali, K. M. H.
11:11 AM	FDT_07	Effect of Coating Materials on Physical Properties and Shelf Life of Chicken Eggs Stored Under Ambient Temperature	Wipulasiri, H. W. G. S. A.
11:23 AM	FDT_10	Optimization of Acid Pretreatment and Extraction Condition For Gelatin Production from Lellu (<i>Cirrhinus Mrigala</i>) Fish Scales	Gajawadhani, A.

Poster presentations		Venue: S502 (Sollertia)	
Time	Abstract ID	Abstract Title	Presenting author
11:30 AM	FDT_03	Optimizing The Synthesis Parameters, Characterization, and Analysis of the Antioxidant Properties of Cinnamomum Verum (Sri Lanka) Bark Extract Mediated Green Synthesized Silver Nanoparticles	Thanoshka K.
11:37 PM	FDT_09	Characterization of <i>Strychnos Potatorum</i> Seed Flour For Potential Food Applications	Premarathne, S. R.

Symposium track: Information and Communication Technology

Oral presentations

Venue: S501 (Sollertia)

Time	Abstract ID	Abstract Title	Presenting author
10:35 AM	ICT_17	Transforming Land Registration with Blockchain: A Framework for Secure Property Transactions in Sri Lanka	Ahamed, O.M.J.A.
10:47 AM	ICT_05	Quantitative Comparison of Cnn, Yolo, and Faster R-Cnn for Elephant Detection in Thermal Images	Rathnayaka, R. M. M. K. B.
10:59 AM	ICT_06	Enhancing Low-Light Image Classification Accuracy Through Multi-Scale Histogram Fusion and Gan-Driven Refinement	Tharaka, M.A.S.
11.11 AM	ICT_09	Identifying AI-Generated Human Portraits and Applying Invisible Watermarks for Source Verification	Dasanayaka, I.M
11.23 AM	ICT_14	Privacy-Preserving Iris Recognition: Evolution, Challenges, and Future Directions	Banu, M.R.R.
11.35 AM	ICT_12	Integrated Decision Support System for TJC Mango Quality Prediction Using Machine Learning and IOT Technologies for Supply Chain Stakeholders In Sri Lanka	Gamage, P.G.Y.K.
11.47 AM	ICT_13	A Novel Visual Dataset And Deep Learning Benchmark for the Fine-Grained Classification of Endemic Lizards of Sri Lanka	Perera, K.A.W.C
11.59 AM	ICT_15	Robust Copy-Move Forgery Detection Using Deep Learning and Feature-Based Classifiers	Peiris, A.A.S.S.
12.11 PM	ICT_16	Sri Lankan Crime Pattern Identification Using News: A Machine Learning Approach	Rathnayaka, R. M. S. S. P.
12.23 PM	ICT_11	Machine Learning for Wild Mushroom Identification: A Systematic Review of Multimodal Methods, Geographic Generalisation, and non-Expert Safety Gaps	Gunawardhana, J. M. K. S.

Symposium track: Information and Communication Technology

Poster presentations

Venue: S305 (Sollertia)

Time	Abstract ID	Abstract Title	Presenting author
11.45 AM	ICT_01	Evaluation of Machine Learning Models for Landslide Risk Classification Using Simulated IOT Stream Data	Samarakkodi, S.A.S.N.
11.57 AM	ICT_02	Challenges and Advances in Automated Mosquito Larva Identification Using Machine Learning: A Review	Adhikari, A.A.P.H.
12.11 PM	ICT_03	Corn Disease Classification Using Machine Learning and Image Processing in Sri Lanka	Vanitha, S
12.23 PM	ICT_07	Leveraging IOT and Image Processing for Standardized Grading of Scotch Bonnet Pepper	Fernando, W. N. D
12.37 PM	ICT_08	Identification of Fruit Quality for Oil Extraction in Palm Trees Using Machine Learning and Image Processing	Tharushimali, G. K. K. H
12.49 AM	ICT_10	Comparative Analysis of Machine Learning Algorithms for Diabetes Mellitus Prediction	Lakshan, W. G. A.

Symposium track: Materials Technology

Oral presentations

Venue: S202 (Sollertia)

Time	Abstract ID	Abstract Title	Presenting author
10:35 AM	MTT_001	Development and Characterisation of Banana Corm Starch-Based Biopolymer Films from Cavendish (<i>Musa Acuminata</i>) and Ambul (<i>Musa</i> spp. (Ambul)) Varieties for Sustainable Food Packaging Applications	Jayasekara G.O.G.P.P.B.
10:47 AM	MTT_002	Development Of Bamboo Charcoal Nano-Paint Polymer for Sustainable Applications	Wanniarachchi W.H.P
10:59 AM	MTT_003	Development and Optimization of a Flexible and Mechanically Enhanced Chitosan Membrane from Waste Shrimp Shells for Wound Healing.	Kalansooriya, I.S.
11.11 AM	MTT_004	Development of Bamboo Charcoal Nano-Paint Polymer for Sustainable Applications	Jayasinghe, J. Y. K.
11.23 AM	MTT_005	Optimisation of Concrete Mix Ratios Incorporating Limestone Quarry Dust	Jinthukaran, S.
11.35 AM	MTT_006	Extraction and Characterisation of Natural Dyes from Breadfruit (<i>Artocarpus Altilis</i>) Roots as a Sustainable and Eco-Friendly Bio-colourant	Kulathunga, K. A. R. R.