



IRCWU 2023

7th International Research Conference

17th & 18th August 2023

“Digitalization for transition to circular economy ecosystems”

Table of Contents

IRC UWU 2023	1
Keynote Speaker Session I	2
Keynote Speaker Session II	3
Program at a Glance	4
Conference Tracks	6
Technical Sessions	7
<i>Aquatic Sciences</i>	<i>8</i>
<i>Business Economics, Accountancy & Finance</i>	<i>12</i>
<i>Computing & Informatics</i>	<i>14</i>
<i>Engineering & Technology</i>	<i>18</i>
<i>Entrepreneurship & Business Management</i>	<i>21</i>
<i>Environmental Sciences</i>	<i>24</i>
<i>Food Science & Bioprocesses</i>	<i>28</i>
<i>Hospitality & Tourism</i>	<i>32</i>
<i>Humanities, Social & Library Sciences</i>	<i>36</i>
<i>Material & Mineral Sciences</i>	<i>40</i>
<i>Sustainable Animal Production</i>	<i>44</i>
<i>Sustainable Crop Production</i>	<i>47</i>
Committees – IRC UWU 2023	51
Past Symposia	54
Uva Wellassa University	60
Main Sponsors	62

IRC UWU 2023

As the trailblazer of the first Entrepreneurial and Technopreneurial University in Sri Lanka, with its vibrancy and prosperity, UWU continues to generate employable, technocratic, and entrepreneurial graduates armed with knowledge, skills, and values as well as who are capable of contributing to national progress.

Being the “Centre for Value Addition” to the national resource base, UWU has been carrying out research since its inception. This year by hosting the 7th International Research Conference of Uva Wellassa University 2023 under the theme “Digitalization for Transition to Circular Economy Ecosystems” IRC UWU2023 intends to explore new avenues and contribute to the expanding research milieu efficiently and effectively.

IRC UWU2023 provides a knowledge-sharing niche for multidisciplinary research under twelve dynamic conference tracks and encourages collaboration among eminent researchers, renowned intellectuals, emerging scholars, academics, scientists, industrialists, professionals, graduates, and undergraduates to disseminate their research findings and innovative ideas in the spheres of Science, Engineering, Technology, and Management. This prominent event aims to bring together researchers and practitioners to share cutting-edge developments, with the ultimate goal of ensuring the nation's sustainable development while strengthening national and international research collaboration.

Keynote Speaker Session I



Professor R. Balasubramani

Associate Professor

Department of Library and Information Science

Bharathidasan University

India

Professor R. Balasubramani is an Associate Professor attached to the Department of Library and Information Science at Bharathidasan University in India. Prof. R. Balasubramanian stands as a prominent figure in the domain of Library and Information Science, leaving an enduring impact through his extensive research and influential contributions. His expertise encompasses Scientometrics, E-Resource Management, Digital Library and Knowledge Management domains that have witnessed his profound investigations, reflected in a noteworthy citation count exceeding 500. Beyond the pages of academic journals, Prof. Balasubramanian's dedication to mentorship shines brightly. Having guided more than 40 postgraduate research students, he has imparted not only knowledge but also a passion for rigorous inquiry and the pursuit of excellence. His influence extends beyond individual research projects, shaping the collective trajectory of the field's future leaders. Apart from all the contributions, Prof. Balasubramanian's work has earned him recognition on both national and international platforms, including the prestigious 2019 Emerald South Asia LIS Research Fund Award. At the national level, his dedication has been celebrated through awards such as the Best Young Research Advisor Award bestowed by IALA Association in 2016, and the National Level Best Library Professional Award, presented by SALIS Association in 2015.

Keynote Speaker Session II



Prof. YuanTong Gu

Head of School
Mechanical, Medical and Process Engineering
Queensland University of Technology
Australia

Professor YuanTong Gu is Head of School of Mechanical, Medical and Process Engineering at Queensland University of Technology (QUT), and the Director of the Australian Industrial Transformation Training Centre for Joint Biomechanics. Prof. Gu's research interests include Computational mechanics, Mechanical Engineering, Biomechanics, Multiscale modelling, and Nano mechanics. He has secured more than \$45M research funds in relevant fields. He authored more than 400 refereed journal publications and one popular book. His publications have attracted more than 16800 citations in Google Scholar. He is Associate Editor for two prestigious Q1 international journals and an Editorial Board Member for other five journals. He is now an Executive Committee Member of the Australian Association on Computational Mechanics and the International Association of Applied Mechanics. Prof. Gu has obtained several awards and prizes, including The APACM Computational Mechanics Award. He has been invited to give more than 40 plenary and invited talks at international conferences. He was the conference chair for several international conferences and will organize the 9th Asian Pacific Congress on Computational Mechanics in 2025.

Program at a Glance

17th August 2023

Inaugural Session

08:00	Desk Registration
09:00	Start of the Inauguration
09:05	Lighting the Oil Lamp
09:10	University Anthem
09:15	Welcome speech by the Conference Coordinator - Dr. (Eng.) H. M. C. M. Herath
09:20	Address by Chairman, Research Committee - Prof. H.M.J.C. Pitawala
09:30	Address by the Chief Guest, Vice Chancellor - Prof. J. L. Ratnasekera
09:45	Launching of Proceedings and Video Highlights of IRCUWU2023
10:00	Keynote Speech - Prof. R. Balasubramani, Bharathidasan University, India.
10:20	Announcement of the UWU Research Awards
10:30	Vote of Thanks by the Conference Secretary - Eng. Mr. M.N.P. Dushyantha
10:40	National Anthem
10:45	End of the Inauguration

Refreshments

Technical Sessions

11:00 – 13:00	Technical Session I (12 Parallel Tracks)
13:00 – 14:00	Session Break
14:00 – 16:00	Technical Session I (12 Parallel Tracks)

End of the Day-I

18th August 2023

09:00 – 09:40 Keynote Speech – Prof. YuanTong Gu, Queensland University of Technology, Australia

09:40 – 10:00 Session Break

10:00 – 13:00 Technical Session II (11 Parallel Tracks)

13:00 – 14:00 Session Break

14:00 – 16:00 Technical Session II (11 Parallel Tracks)

End of the Day-II

Conference Tracks

1. Aquatic Sciences
2. Business Economics, Accountancy & Finance
3. Computing & Informatics
4. Engineering & Technology
5. Entrepreneurship & Business Management
6. Environmental Sciences
7. Food Science & Bioprocesses
8. Hospitality & Tourism
9. Humanities, Social & Library Sciences
10. Material & Mineral Sciences
11. Sustainable Animal Production
12. Sustainable Crop Production

Technical Sessions

Aquatic Sciences

17th August 2023 (Session I: 11:00–15:40)

Panel Members: **Prof. T.V. Sundarabarathy (University of Rajarata, Sri Lanka)**
Mr. N.P.P. Liyanage (Uva Wellassa University of Sri Lanka)
Dr. W.M.G. Sandamalika (Wayamba University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
070	Comparison of color enhancement with carrot and hibiscus pigment-containing feed in Tiger Oscar (<i>Astronotus ocellatus</i>)
11:00-11:20	<u>K.K.S. Kariyawasam, A.D.R.P. Bandara, T.H.V.P. Jayaweera, N.P.G. Pushpitha</u>
199	Preliminary study of bycatch and discards composition of shrimp fyke net fishery in Gurunagar, Sri Lanka
11:20-11:40	<u>N. Janani, I.U. Wickramaratne, N. Ragavan</u>
248	Comparative study on fisheries and socioeconomic status of Pallikuda and Nachchikuda Kilinochchi, Sri Lanka
11:40-12:00	<u>T. Yogarasa, I.U. Wickramaratne</u>
252	Effects of biosecurity measures and better management practices on parasitic infestations of <i>Xiphophorus hellerii</i> (Swordtail fish)
12:00-12:20	<u>M.M.R.M. Wijenayaka, M. Hettiarachchi</u>
400	Investigating the prevalence of the <i>Penaeus monodon</i> densovirus infection in shrimp farms in Chilaw, Sri Lanka
12:20-12:40	<u>D.H. Iroshani, J.A. Athula, T.S.R. Fernando, N.P.P. Liyanage, U.D.P. Manjula, R.R.M.K. Wijesundara, R. Vanichviriyakit</u>
442	Comparative study on the dietary effect of live polychaetes and frozen polychaetes for reproductive performance of <i>Litopenaeus vannamei</i>
12:40-13:00	<u>D.M.C.S. Dissanayaka, N.M.P.C. Fernando, A.C.W.W.M.C.L.K. Coswatte, R.G.D.R. Jayawickrama, J.A. Athula</u>
13:00-14:00	SESSION BREAK
444	A preliminary study on comparative culture performances of sea cucumber (<i>Holothuria scabra</i>) farming in existing coastal pens with varying buffer zone ranges in Jaffna lagoon, Northern Province, Sri Lanka
14:00-14:20	<u>B. Nirojan, W.S. Thulasitha, B. Nirooparaj, J.A. Athula</u>

-
- 454** Assessment of fisheries and aquaculture certification in Sri Lanka: Special reference to Gampaha district
14:20-14:40
M.G.K.N. Gamage, U.S. Samarasinghe, P.C.B. Dias, J.K.H. Sampath, C.K. Illangasingha
- 471** Impact of economic crisis on the performance of ornamental fish industry in Western Province, Sri Lanka
14:40-15:00
A.V.S.N. Sirisena, L.D.M.A. Dhaneshwara, A.C.W.W.M.C.L.K. Coswatte, T.G.H.C. Amarawansa, N.P.P. Liyanage
- 478** A global-scale analysis of organic UV filters in marine biota: Seafood safety implications
15:00-15:20
M.G.D.S.K. Madurawala, N.P.P.S. Nugawela, A.S. Mahaliyana
- 483** Impact of economic crisis on the performance of ornamental fish farms: Special reference to Polonnaruwa district, Sri Lanka
15:20-15:40
S.M.M.S. Samarasingha, A.C.W.W.M.C.L.K. Coswatte, T.G.A.H.C. Amarawansa
- 15:40 **END OF SESSION**

18th August 2023 (Session II: 10:00–14:40)

Panel Members: **Prof. K. Masakorala (University of Ruhuna, Sri Lanka)**
Dr. R.M.G.N.Thilakarathna (University of Ruhuna, Sri Lanka)
Dr. B.V.A.S.M. Bambaranda (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
054	Sex determining factors in green sea turtle landed in Rekawa, Sri Lanka
10:00-10:20	<u>J.S.T. Thathsarani</u> , C.H.M.D.K. Herath, S.P. Premachandra, M.F.M. Fairoz
127	Preliminary investigation of the hard corals and their interactions at Pareiwella coral reef of Southern Sri Lanka
10:20-10:40	<u>H.C.K. Ranawaka</u> , W.A.A.U. Kumara
149	Interannual and intra-annual variability of chlorophyll-a concentration in the Northern Arabian Sea from 2004 to 2021
10:40-11:00	<u>S.D. Samarakoon</u> , H.N.K. Ekanayake, E.P.D.N. Thilakarathne, W.N.D.S. Jayarathna
151	Microplastic pollution in seagrass meadows along the Eastern coast of Sri Lanka
11:00-11:20	<u>H.M. Madushani</u> , E.P.D.N. Thilakarathne, J.B. Koongolla, H.G.C.S. Divyanjalee, R.M.A. Jayalath
152	Grain size distribution of sea turtle nesting beaches on the Southern coast of Sri Lanka
11:20-11:40	<u>R.M.A. Jayalath</u> , E.P.D.N. Thilakarathne, A.S.Rathnayake, H.M. Madushani, H.G.C.S. Divyanjalee
165	Effect of natural and artificial barriers on coastal erosion of Southern coast, Sri Lanka
11:40-12:00	<u>H.G.C.S. Divyanjalee</u> , E.P.D.N. Thilakarathne, V. Thilakanayaka, H.M. Madushani, R.M.A. Jayalath
205	Spatial variation of water quality: A case study in upper catchment of Kumbukkan Oya, Sri Lanka
12:00-12:20	<u>R.M.P.P. Rathnayaka</u> , R.M.G.N. Rajapaksha
238	Blue carbon storage analysis in Dikwella seagrass bed of Sri Lanka
12:20-12:40	<u>W.G.I.T. Gunathilaka</u> , S.H.K. Narmada, E.P.D.N. Thilakarathne, T.W.S. Warnasuriya, K.P.U.T. Egodaunya, K.U.D.N. Hansani, W.M.P.U. Weerasingha, B.G.D.O. Perera
280	Fluctuation of sea surface temperature over shallow coral reef ecosystems in Pigeon Island National Park, Sri Lanka during the past 25 years period (1998-2022)
12:40-13:00	<u>T.D.T. De Silva</u> , E.P.D.N. Thilakarathne

13:00-14:00

SESSION BREAK

449

Study of phenotypic plasticity of *Rasboroides vaterifloris* in Kalu river basin, Sri Lanka

14:00-14:20

R.W.A.B.M.R.P.P. Poddalgoda, R.G.D.R. Jayawickrama, N.P.P. Liyanage, P.C.B. Dias, P.K.T. Malshani

459

Detection of spatial and temporal variation of Unawatuna mangroves; over the past 20 years using remote sensing and GIS techniques

14:20-14:40

Y.G.A.Y. Yatagama, A.P. Abeygunawardana

14:40

END OF SESSION

Business Economics, Accountancy & Finance

17th August 2023 (Session I: 11:00–15:20)

Panel Members: **Prof. P.H.T. Kumara (Uva Wellassa University of Sri Lanka)**

Prof. K. Uluwatta (Wayamba University of Sri Lanka)

Dr. T.C. Ediriwickrama (University of Colombo, Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
012	A study on the application of accounting techniques and practices and its effect on the sustainability of small and medium enterprises in Ampara district
11:00-11:20	<u>M.F. Nusaika, D.G.M.L.W. Kumari</u>
058	Impact of government budget announcement on stock market return: Evidence from the Colombo Stock Exchange
11:20-11:40	<u>J.M.N. Wijekumara, D.M.H.D. Dissanayake</u>
065	Modeling the factors influencing intention to use cryptocurrencies, special reference to university students, professionals, and investors in Sri Lanka
11:40-12:00	<u>H.H. Aluvihare, N.P.Ravindra Deshapriya, A.G.N.K. Fernando</u>
066	A study on foreign direct investment, trade flows and air pollution in Asian countries
12:00-12:20	<u>E.M.P.D. Kumari, N.P.Ravindra Deshapriya, L.M.I.M. Lewliyadda</u>
176	Financial institution selection criteria in small and medium enterprises: Evidence from small and medium enterprises in Galle district
12:20-12:40	<u>K.G.P. Kumari</u>
233	The disclosure of corporate social responsibility and financial performance of listed hotels in Colombo Stock Exchange
12:40-13:00	<u>R.L.T.D. Nandasiri, K.M.M.C.B. Kulathunga, H.M.T. Priyadarshani</u>
13:00-14:00	SESSION BREAK
336	Awareness of microfinance services and small and medium enterprises performance: Special reference small and medium enterprises in Badulla district
14:00-14:20	<u>M.M. Dadallege, K.M.M.C.B. Kulathunga, A.G.N.K. Fernando</u>
375	Impact of working capital management practices on financial performance with special reference to food, beverage and tobacco industry in Colombo Stock Exchange
14:20-14:40	<u>P.R.W.M.J.C.K. Weerasinghe, K.M.M.C.B. Kulathunga, L.M.I.M. Lewliyadda</u>

436

The impact of macro-economic variables on stock market performance in Sri Lanka

14:40-15:00

P. Sangeerthana, S. Dineshkumar

480

Determinants of technical efficiency of dairy farmers in Kurunegala district of Sri Lanka

15:00-15:20

V.R. Thanthrige, C.S. Wijetunga, S. Hitihamu, B.C.H Maduwanthi

15:20

END OF SESSION

Computing & Informatics

17th August 2023 (Session I: 11:00–15:20)

Panel Members: **Dr. E.M.U.W.J.B. Ekanayake** (Uva Wellassa University of Sri Lanka)
Ms. S.D.H.S. Wickramaratne (Uva Wellassa University of Sri Lanka)
Dr. K.P.P.S. Pathirana (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
031	Enhancing property tax assessment in Sri Lanka through Geographic Information Systems: A comprehensive analysis of the role and benefits
11:00-11:20	<u>W.M.S.S. Dias</u>
061	Identification and classification of yellowfin tuna <i>Thunnus albacares</i> (Bonnaterre, 1788) filets using CNN
11:20-11:40	<u>A.U.E. Weerasinghe, D.G.T.S. Gunathilaka, W.G.R.M. De Silva, E.M.U.W.J.B. Ekanayake, N.E.C. Jayasekara, N.P.P. Liyanage</u>
076	CNN-based mobile application to detect and identify plant diseases using real-time plant images
11:40-12:00	<u>K.M.S.S. Kumarasingha, G.T. Lakshan, P.N.V. Perera, S.L.C. Hansika, P.A.T.C. Wijerathna, K.A.K. Chanika, W.M.C.J.T. Kithulwatta, W.B.M.S.C. Wijayakoon</u>
077	Sentiment analysis on review data of taxi-hailing app in Sri Lanka using VADER and TEXTBLOB
12:00-12:20	<u>V.A.P. Withanage, S.A.D. Ravindra, W.B.M.S.C. Wijayakoon</u>
102	Word2Vec embeddings with neural models for short text classification
12:20-12:40	<u>J.R.K.C. Jayakody, V.G.T.N. Vidanagama</u>
126	An integrated model to identifying the learning style of the students: A machine learning approach of Felder Silverman learning style model
12:40-13:00	<u>W.A.A.M. Wanniarachchi, H.K.S. Premadasa</u>
13:00-14:00	SESSION BREAK
130	A deep learning approach: Sentiment analysis on users' reviews on Google Play Store apps
14:00-14:20	<u>P.H.C. Samanmali, R.A.H.M. Rupasingha</u>
206	Customer buying product quantity prediction and forecasting company future income
14:20-14:40	<u>R.L.N.T. Rajapaksha, C.V. Thilakarathne, G.D.S.A. Hami, N.E.C. Jayasekera</u>

209	Real-time electroencephalography signal classification using GPGPU
14:40-15:00	<i><u>E.M.S.S. Premasiri</u>, J.A.P. Somasiri, A.B.J. Maheshika, K.P.P.S. Pathirana</i>
213	Individual leopard identification using black spot patterns
15:00-15:20	<i>R.D.A.V. Randeniya, V.N. Mahaliyanaarachchi, <u>G.H.R. Dheerathne</u>, S.J.M.D.P. Samarakoon, M. Ramashini</i>
15:20	END OF SESSION

18th August 2023 (Session II: 10:00–15:20)

Panel Members: **Dr. E.M.U.W.J.B. Ekanayake** (Uva Wellassa University of Sri Lanka)
Ms. S.D.H.S. Wickramaratne (Uva Wellassa University of Sri Lanka)
Dr. K.P.P.S. Pathirana (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
229	A deep learning-based approach on categorization of tea buds
10:00-10:20	<u>I.A.A.S. Ileperuma</u> , R.M.I.N. Jayarathna, M.N.T. Nandasena
288	Deep learning-based hybrid approach for priority prediction of bug reports using different feature vector generations
10:20-10:40	<u>D.N.A. Dissanayake</u> , R.A.H.M. Rupasingha, B.T.G.S. Kumara
330	Crop plant disease detection using deep learning
10:40-11:00	H.D.K.M. Jayasooriya, <u>R.A.N.T.D. Rajapaksha</u> , M.M.R. Banu, M.N.T. Nandasena
335	Cost-effective ECG machine synchronized to mobile phone for data display and analysis
11:00-11:20	<u>T. Janitha</u> , G. Suganthini, G. Lirogeetha, K.P.P.S. Pathirana
341	Recognition of the Sri Lankan trademarks using deep learning
11:20-11:40	J.M.S.S. Jayasekara, <u>G.N.L. Pathirana</u> , G.R.P. Kavindi, M.N.T. Nandasena
348	Supervised learning techniques for predicting the personality of employees in Sri Lanka after the Covid-19 pandemic
11:40-12:00	<u>L.P.P.K. Pemasiri</u> , K.S. Ranasinghe, R.A.H.M. Rupasingha
353	Sentiment analysis and ratings prediction of Google Play Store applications: Leveraging machine learning for enhanced user insights
12:00-12:20	<u>R. Lokesh Kumar</u> , K.R. Jothi, P. Ponnusamy, C. Ramesh, K. Raja
354	Legal cases summarization using abstractive and extractive methods
12:20-12:40	<u>D.M.M.B. Dissanayake</u> , N.Y. Kumarasingha, D.M.P. Dasun, H.M.S.N. Ariyadasa, C.S.D. Ellepola
355	Identification of gemstone based on absorption band spectrum image and refractive index using machine learning
12:40-13:00	<u>T. Heerthana</u> , A. Kayathiri, A. Priyanka, T. Rajeetha, M. Ramashini, R.G.C. Jaliya
13:00-14:00	SESSION BREAK

-
- 379** Mobile application based smart solution for dyslexic children and improve their learnability
14:00-14:20
S. Dinushan, M. Ielamathy, S. Kapilan, S.J.M.D.P. Samarakoon, K.P.P.S. Pathirana
- 385** Advancing gemstone identification: A deep learning-based approach for accurate gemstone classification and identification
14:20-14:40
W.G.S.A. Gunarathna, S.R. Samarathunga, D.P. Sandaruwan, M. Ramashini, D.P. Jayathunga, R.G.C. Jaliya
- 389** Soil horizon delineation using image processing
14:40-15:00
T.H.E.S. Perera, K.G.S. Randika, W.S.M. Fernando, N.D. Attanayake, E.M.U.W.J.B. Ekanayake, C. Attanayake
- 390** The impact of AI tools on the critical thinking skills of university students: A case study on information technology undergraduates
15:00-15:20
B.M.U.K.S. Ekanayake, K.G.T. Lakshani, B.G.N.E. Kumarasinghe, W.A.A.M. Wanniarachchi
- 15:20 **END OF SESSION**

Engineering & Technology

17th August 2023 (Session I: 11:00–15:20)

Panel Members: **Dr. R.M.T.C.B. Ekanayake** (Uva Wellassa University of Sri Lanka)
Mr. M. Jayawickrema (Uva Wellassa University of Sri Lanka)
Mr. J.M.S.M. Jayasekara (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
029	Misaligned expectations in implementing integrated management systems (ISO 9001:2015 and ISO 14001:2015): An exploratory qualitative case study at a manufacturing facility
11:00-11:20	<u>R.D. Edirisinghe</u>
047	IoT-based patient monitoring system for Sri Lanka
11:20-11:40	<u>L.A.M.G.S.K. Liyadipita</u> , A.R.P.C.C.J. Amarasingha, T. Thevathayarajh, T.U.K.S. Bandara
100	Building a low-cost impedance tube to investigate sound absorption coefficients
11:40-12:00	<u>N.D.D.D. Senarath</u> , J.A.C.P. Jayalath, D.R.A. Mendis
104	Approach to reduce breakdowns due to lightning strikes in 33kV distribution network
12:00-12:20	<u>P.A.I.S. Abejeewa</u> , J.G.B.P.S. Jayaweera
178	Analysis of corrugated baffles on sloshing characteristics of rectangular containers
12:20-12:40	<u>P. Palanisamy</u> , S.K. Selvaraj, V.R. Raja, R. Kothandaraman
223	Detection of coating thickness and notch analysis by eddy current inspection for carbon-coated materials
12:40-13:00	<u>J.R. Nishadini</u> , T.G.C.N. Senavirathna, E.M.D.G.S. Ekanayaka, J.L.A.C. Madusanka, H.M.C.M. Herath, G.A.A.I. Tennakoon, A.G.C.S. Amarasinghe
13:00-14:00	SESSION BREAK
240	Deep learning-based traffic sign recognition and auditory alert system for Sri Lankan drivers
14:00-14:20	<u>V. Geerthana</u> , T. Thevathayarajh, A.R.P.C.C.J. Amarasinghe, M. Janotheepan, R.M.T. Lakmali
362	Development of automated image capturing for Zebrafish embryo toxicity model
14:20-14:40	<u>M.M.R. Ahamed</u> , A.R.P.C.C.J. Amarasinghe, T. Thevathayarajh, D.S.P.P.G. De Silva, K. De Zoysa, D.P.N. De Silva

425

Obtaining power during the curtailment period of a grid-connected solar panel system

14:40-15:00

W.M.P.I.B. Senavirathna, W.M.D.S. Jayalath

433

Classification of the maturity status of fruits and vegetable based on machine learning approach

15:00-15:20

S.A.S.M. Sudusinghe, W.A.N. Wickramasinghe, K. Saikrisha

15:20

END OF SESSION

18th August 2023 (Session II: 10:00–13:00)

Panel Members: **Dr. R. Keerthiwansa (Uva Wellassa University of Sri Lanka)**
 Dr. R.M.T.C.B. Ekanayake (Uva Wellassa University of Sri Lanka)
 Dr. W.D.C.C. Wijerathne (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
067	Design and implementation of prototype personal food computer for Sri Lankan agriculture
10:00-10:20	<i>I.P. Balasuriya, M.L.S.C. Hirushan, H.R. Kandegama, P.Y.C. Ranawaka, H.G.C.R. Laksiri, S.D.R. Lakmal</i>
078	Development of an automated robotic arm for the streak plate method
10:20-10:40	<i>H.H.J. Hansajith, D.D.B. Senanayake, J.M.S.M. Jayasekara, G.J.K.I.U. Jayawardhana, K. Tharshigah</i>
128	Production of a coir combing machine to increase the efficiency of coir manufacturing
10:40-11:00	<i>W.A.D. Silva, R.M.T.C.B. Ekanayake</i>
163	Sustainable cutting fluids for composite machining - A short review
11:00-11:20	<i>I.P. Dharmathilaka, H.M.C.M. Herath</i>
185	Smart automatic transfer switch with phase failure condition monitoring
11:20-11:40	<i>N.J. Abeygunawardena, A.H.M.S.D. Abeysinghe, T.G. Jathunga, J.M.S.M. Jayasekara</i>
192	Smart power monitoring device with redundant residual current fault detection
11:40-12:00	<i>W.N.S. Fernando, K.P.T. Dasun, M.G.N. Weeraratna, J.M.S.M. Jayasekara</i>
210	Design and development of a medium scale dehydration machine for food
12:00-12:20	<i>B.D.D.S. Ubeseekara, K.D. Jayarathne, P.D.S. Sankalpana, H.N. Madhushani, H.M.C.M. Herath</i>
227	Development of a Delta-X robot-controlled conveyor belt system with virtual reality interface for enhanced production efficiency
12:20-12:40	<i>M.M.R. Rashmika, N.U.S. Kumara, G.M.K. Perera, M.M.S.M. Mapa, H.G.C.R. Laksiri, S.D.R. Lakmal, P.G.S.R. Wijetunga</i>
358	Design and development of a small-scale automated filling machine for seeding tray
12:40-13:00	<i>G.A.R. Nisansala, D.M.C. Hansamal, S.A.P. Vindana, A.A.K.T. Aththanapola, Y.N.S. Wijewardana, H.G.C.R. Laksiri</i>
13:00	END OF SESSION

Entrepreneurship & Business Management

17th August 2023 (Session I: 11:00–15:00)

Panel Members: **Prof. H.A.K.N.S. Surangi** (University of Kelaniya, Sri Lanka)
Prof. P.I.N. Fernando (Uva Wellassa University of Sri Lanka)
Dr. J. Siyabalapitiya (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
037	Determinants of value-added tea exportation in Sri Lanka: The exporters' view
11:00-11:20	<u>I.B.R.D.H. Jayasooriya, M.K.S.L.D. Amarathunga, M.G.P.P. Mahindaratne</u>
137	The role of university social responsibility on student loyalty: Empirical evidence from private universities in Sri Lanka
11:20-11:40	<u>G.A.T.N. Ganepola, C.J.P. Kulathilaka, A.G.N.K. Fernando</u>
174	Learning capabilities, social innovations, resilience capabilities and performance of social enterprises in the current situations in Sri Lanka
11:40-12:00	<u>P. Kishani, A.A.K.K. Jayawardhana, P.G.M.S.K. Gamage</u>
258	Effect of entrepreneurial orientation on innovative performance of small and medium-sized enterprises: The mediating role of strategic orientation (Manufacturing small and medium-sized enterprises in Colombo district)
12:00-12:20	<u>P.V.C.U. Pinnagoda, A.A.K.K. Jayawardhana, K.M.N. Jeewanthi</u>
265	The mediating effect of workplace counseling on job stress and employee performance in the apparel industry
12:20-12:40	<u>H.M.S.I.D. Herath, H.M.W.M. Herath, P.G.M.S.K. Gamage</u>
349	Impact of entrepreneurial orientation on marketing innovation performance on small and medium-sized enterprises, the mediating effect of environmental dynamism
12:40-13:00	<u>R.A.L. Udara, H.M.W.M. Herath, T.G.A.H.C. Amarawansa</u>
13:00-14:00	SESSION BREAK
356	Entrepreneurial orientation and strategic agility in enhancing resilience capabilities of export-oriented small and medium-sized enterprises in Sri Lanka: A special reference with food and beverage export-oriented small and medium-sized enterprises
14:00-14:20	<u>H.P.M.B. Arachchige, A.A.K.K. Jayawardhana, T. Priyadarshani</u>

421

14:20-14:40

Evaluation of small and medium-sized enterprises' involvement in strawberry cultivation in Nuwara Eliya district

H.M.G.N. Herath, M.G.P.P. Mahindarathne, M.K.S.L.D. Amarathunge, C. Amarakoon, Y.L.B. Paviththrani

482

14:40-15:00

Market feasibility of establishing a new tea center: A study of Kelani Valley plantations

K.M.M.D. Kapilarathne, M.G.P.P. Mahindarathne, C.H.M. Baanagala, A.T. Gamage

15:00

END OF SESSION

18th August 2023 (Session II: 10:00–12:40)

Panel Members: **Dr. H.K.G.S. Ranasinghe** (University of Jayawardhanapura, Sri Lanka)
Prof. P.I.N. Fernando (Uva Wellassa University of Sri Lanka)
Dr. M.R. Chandrasekara (University of Colombo, Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
022	Influence of gamification on online purchase intention: Mediating role of customer engagement intention and enjoyment of online shopping experience
10:00-10:20	<u>G.S.M. Gamage, H.L.N. Wasantha, A.G.N.K. Fernando</u>
194	Corporate social responsibility and customer loyalty; The mediating role of corporate reputation, customer satisfaction, and trust in the insurance industry of Sri Lanka
10:20-10:40	<u>N. Nivethikan, H.M.W.M. Herath, A.G.N.K. Fernando</u>
261	Impact of mobile augmented reality in E-commerce on purchase intention with the mediating effect of consumer innovativeness (with special reference to the generation of digital natives in Sri Lanka)
10:40-11:00	<u>G.L.T.D. Hemawansa, H.M.W.M. Herath, K.J.T. Perera</u>
291	The mediating role of consumer attitude on YouTube video marketing on consumer purchase intention special references in instant food industry in Sri Lanka
11:00-11:20	<u>W.T.K.M. Wickramasinghe, C.J.P. Kulathilaka, P.G.M.S.K. Gamage</u>
346	Impact of Instagram influencers as Micro-Celebrities on the purchase decision of cosmetic brands: with mediating effect of consumer trust
11:20-11:40	<u>W.T. Jayanaka, C.J.P. Kulathilaka, T.G.A.H.C. Amarawansa</u>
369	The study of the impact of Facebook advertising appeals on impulsive buying with mediating effect of customer's perceived value (special reference to online clothing and accessories items in Western Province)
11:40-12:00	<u>R.A.N.D. Ranasinghe, C.J.P. Kulathilaka, K.J.T. Perera</u>
416	The impact of green marketing on consumer purchase intention with mediating effect of consumer knowledge (with special reference to young workers in the Sri Lankan BPO industry)
12:00-12:20	<u>B.G.P. Dilhani, H.L.N. Wasantha, T.G.A.H.C. Amarawansa</u>
395	Impact of viral marketing on consumer purchase intention with mediating effect of consumer perceived value (with special reference to licensed commercial banking consumers in the Western Province)
12:20-12:40	<u>K.R.U. Perera, H.L.N. Wasantha, T.G.A.H.C. Amarawansa</u>
12:40	END OF SESSION

Environmental Sciences

17th August 2023 (Session I: 11:00–16:00)

Panel Members: **Prof. P.B. Ratnaweera** (Uva Wellassa University of Sri Lanka)
Dr.G.L.N.P. Sumanarathna (Uva Wellassa University of Sri Lanka)
Dr.A.A.G.D. Amarasooriya (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
028	Remediation of copper contaminated soil by char derived from used disposable baby diapers
11:00-11:20	<u>A. Kavinthini, A.D. Igalavithana</u>
059	Stress responses and growth rate of <i>Ceratophyllum</i> sp. (Hornwort) exposed to different salinity levels
11:20-11:40	<u>M.B.A.P. Ariyadasa, K.S.S. Atapaththu, H.L.K. Sanajaya</u>
107	Sol-gel synthesized Fe ₃ O ₄ /MgO Nanocomposite: A magnetic sorbent for Cd(II) ions
11:40-12:00	<u>V. Gurunathanan, K.B. Wijayarathne, B.S. Dassanayake, H.C.S. Perera</u>
173	Microplastic accumulation in the sediment of Rekawa lagoon, Sri Lanka
12:00-12:20	<u>A.M.S. Dilshani, D.M.T.N. Dissanayake, W.A.A.U. Kumara, M.P. Kumara</u>
367	Assessment of hydrological characteristics of Amban ganga sub-basin of Mahaweli river basin using morphometric analysis of spatially derived data
12:20-12:40	<u>E.R.M.S. Ekanayake, N.S. Withanage, G.D.J.M. Abeysekara, R.A.D. Madhushan, Y.B.L.R. Ravisanka, M.A.H. Kusalasiri, S.B. Adhikari</u>
401	Investigate physicochemical and mechanical properties of potential native tree species for manufacturing toothpicks
12:40-13:00	<u>V.M.B. Wimalakeerthi, S. Ediriweera, A.R.P.C.C.J. Amarasinghe</u>
13:00-14:00	SESSION BREAK
406	Evaluation of Phosphate solubilizing ability of <i>Aspergillus</i> spp.
14:00-14:20	<u>A.A.A.U. Aberathna, A.K.S. Priyangika, D.A. Satharasinghe, A.P. Jayasooriya, R.N. Jinadasa, S. Manopriya, B.P.A. Jayaweera, W.A.D.V. Weerathilake, G.A. Prathapasinghe, J.M.K.J.K. Premarathne</u>
411	Infauanal abundance of Polhena reef lagoon, Matara, Sri Lanka
14:20-14:40	<u>C.H.M.D.K. Herath, J.S.T. Thathsarani, W.A.S.P. Premachandra, M.F.M. Fairoz</u>

-
- 438** Investigating the effect of Mg(II) on electrolysis removal of hexavalent Chromium in wastewater
14:40-15:00
S.A.T.N. Jayasinghe, A.A.G.D. Amarasooriya
- 453** Qualitative assessment of phytoremediation potential for textile waste sludge to remove microplastics from textile sludge using floating aquatic macrophytes
15:00-15:20
D.C.N. Jayasuriya, J.T. Cooray, M.N.P. Dushyantha
- 481** Morphological characterization of wild macrofungi from Passara Tea Research Institute and surroundings in the mid-country intermediate zone IM3B of Sri Lanka
15:20-15:40
P.H.H.K. Senarathna, N.W. Gunasekara, A.N. Ediriweera, M.K. Meegahakubura, P.B. Rathnaweera, S.C. Karunaratna, K.A.Y. Yomal, A.M.W.K. Senavirathna
- 484** Tourism and marine chemical pollution: A global analysis
15:40-16:00
P.G.C.S. Jayasinghe, N.P.P.S. Nugawela, A.S. Mahaliyana
- 16:00 **END OF SESSION**

18th August 2023 (Session II: 10:00–15:00)

Panel Members: **Dr. I.D. Singhalage (Uva Wellassa University of Sri Lanka)**
 Prof. Y.N.S. Wijewardana (Uva Wellassa University of Sri Lanka)
 Dr. A.A.G.D. Amarasooriya (Uva Wellassa University of Sri Lanka)

Paper ID	Title of Abstract
Time	Names of Authors
034	Community resilience and pre-disaster management in cities: A policy analysis brief
10:00-10:20	<u>R.D. Edirisinghe</u>
056	Linking intraspecific leaf trait variability to species habitat associations in a diverse tropical rainforest
10:20-10:40	<u>H.A.S. Madhubhani</u> , H.K.M. Lakmali, A. Surendra, L.S. Comita, S. Ediriweera
057	Interspecific functional trait responses to environmental gradients in a diverse tropical rainforest in Southwest, Sri Lanka
10:40-11:00	<u>H.K.M. Lakmali</u> , H.A.S. Madhubhani, A. Surendra, L.S. Comita, S. Ediriweera
069	Reflections on household level solid waste management behavior in the Moratuwa Municipal Council area, Sri Lanka
11:00-11:20	<u>R.A.K.D. Ramanayake</u> , H.U.M. Chularathna
109	Effect of organic manure amendments on soil water characteristic curve of topsoil
11:20-11:40	<u>G.U. Sandamali</u> , Y.N.S. Wijewardana
124	Assessment of toxic trace metal accumulation in water, sediment, and aquatic plants in irrigation tanks, Anuradhapura, Sri Lanka
11:40-12:00	<u>H.M.C.D. Gamagedara</u> , R.L. Jayaratne, E.M.R.K.B. Edirisinghe
207	Exploring the life cycles of two natural enemies of water hyacinth in Sri Lanka
12:00-12:20	<u>W.A.M.K. Weerakkodi</u> , K.M.D.W.P. Nishantha, A.N.R. Weerawansa, M.A.G.C.N. Premarathne
241	Farmer survey and analysis of pesticide residue levels in 'Gotukola' (<i>Centella asiatica</i>) and 'Mukunuwenna' (<i>Alternanthera sessilis</i>) exported to the European Union
12:20-12:40	<u>B.R.D. Madhurangani</u> , P.W.Y. Lakshani, G.A.A.R. Perera
263	Alternatives for plastic to achieve zero plastic framework in Uva Wellassa University of Sri Lanka
12:40-13:00	<u>M.R.F. Juhi</u> , K.H.I.K. Hewavitharana, H.J. Sithari

13:00-14:00

SESSION BREAK

321

Investigating climatic change by analysing rainfall data in Badulla district

14:00-14:20

U.D.N. Arachchi, N.P. Premachandra

381

Sri Lankan low quality tourmaline as a novel adsorbent for the removal of lead and copper in aqueous media

14:20-14:40

R.M.D.N. Tharaka, A.T. Cooray, R.S. Diyabalanage

399

Floristic features of plant associations harbouring *Stemonoporus* species in the Peak Wilderness conservation area

14:40-15:00

E.M.S. Ekanayake, S.A. Krishnarajah, R.R. Ratnayake, S. Ediriweera, G.A.D. Perera

15:00

END OF SESSION

Food Science & Bioprocesses

17th August 2023 (Session I: 11:00–15:20)

Panel Members: **Prof. J.K. Vidanarachchi** (University of Peradeniya, Sri Lanka)
Dr. M.M.S.N. Prematilake (Uva Wellassa University of Sri Lanka)
Dr. T.C. Kananke (Sabaragamuwa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
040 11:00-11:20	Assessment of functional properties of Jackfruit (<i>Artocarpus heterophyllus</i> L.) seed flour: A comparison of hot-air-drying and freeze-drying methods <u>S.D.N. Kaushalya</u> , M.D. Withanage, W.A.J.P. Wijesinghe
181 11:20-11:40	Elucidating the role of phytochemicals from <i>Brassica oleracea</i> var. italica (Broccoli) on hyperthyroidism – An <i>in-silico</i> approach <u>S. Kunjappan</u> , P. Palanisamy, L. Ramasamy, K.R. Jothi
157 11:40-12:00	Development of ready-to-cook rohu (<i>Labeo rohita</i>) products using traditional methods <u>S. Dishani</u> , E.D.N.S. Abeyrathne
189 12:00-12:20	Comparison of bioactive peptides produced from selected egg white proteins by using enzymatic hydrolysis and High Temperature and Mild Pressure conditions <u>S. Piriyanthi</u> , E.D.N.S. Abeyrathne, Dong Uk Ahn
196 12:20-12:40	Development of a snack bar using Green Gram, Chickpea, and Black-Eyed Pea <u>R.S. Akshana</u> , K.M. Somawathie
260 12:40-13:00	<i>In vitro</i> antidiabetic and antioxidant activities of different phytochemical extractions from <i>Gynura procumbens</i> leaves <u>P.R.H.K. Kumari</u> , N.M. Wijesundara
13:00-14:00	SESSION BREAK
279 14:00-14:20	Characterization of potential phytoplane fungal antagonists against common foliar pathogens of pole beans (<i>Phaseolus vulgaris</i>) grown in Bandarawela region of Sri Lanka <u>A.P.U. Dilrukshi</u> , M.K. Meegahakumbura, N.W. Gunasekara, P.B. Ratnaweera, D.N. Wanasinghe, D.M.K.K. Manatunga, A.M.W.K. Senavirathna
308 14:20-14:40	Effect of power ultrasound on soy protein isolate as wall material in microencapsulation of <i>Streptococcus thermophilus</i> STI - 15 <u>K.G.B.B.H. Balasooriya</u> , D.C. Mudannayake, A.M.N.L. Abesinghe

327

14:40-15:00

Formulation of freeze-dried instant guava (*Psidium guajava*) powder mix and evaluation of its sensory and nutritional properties

E.A.T. Nirmani, W.A.J.P. Wijesinghe

402

15:00-15:20

Identifying the impact of leaf miner (*Acrocercops* spp) infestation on quantity of essential leaf oils of cinnamon (*Cinnamomum zeylanicum* blume)

S. Naguleswaran, C. Widanapathirana, A.A. Wijeweera,
N.M. Wijesundara

15:20

END OF SESSION

18th August 2023 (Session II: 10:00–15:40)

Panel Members: **Prof. W.A.J.P. Wijesinghe** (Uva Wellassa University of Sri Lanka)
Dr. W.M.N.M. Wijesundara (Uva Wellassa University of Sri Lanka)
Dr. S. Fernando (University of Ruhuna, Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
328 10:00-10:20	Effect of the processing procedures on black pepper (<i>Piper nigrum</i> L.) oil content <u>H.M.R.P. Lakmali</u> , T. Liyanage, H.M.P.A. Subasinghe, J.P. Kirthisinghe
396 10:20-10:40	Physicochemical, microbiological, and sensory properties of chicken sausages incorporated with <i>Hibiscus rosa-sinensis</i> flower powder <u>A.P.K. Thathsarani</u> , A.U. Alahakoon, R. Liyanage
360 10:40-11:00	Effect of microencapsulation of <i>Streptococcus thermophilus</i> ST1 – 15 in soy protein isolate – inulin matrix on their viability <u>W.A.S. Chathurangika</u> , D.M.K.S. Dissanayake, A.M.N.L. Abesinghe, D.C. Mudannayake
374 11:00-11:20	Variation of organoleptic properties and probiotic viability of inulin added set-type yoghurt made from cattle and buffalo milk K.A.D.C. Gnanarathna, M.T.L.K. Jayasumana, <u>V.A. Wijesekara</u> , W.V.V.R. Weerasingha
384 11:20-11:40	Development of mangrove apple (<i>Sonneratia caseolaris</i>) incorporated coconut (<i>Cocos nucifera</i>) cream mixed dairy ice cream <u>H.K. Gallage</u> , K.N. Wijayasekara, M.P. Edirisinghe
403 11:40-12:00	Analysis, characterization and comparison of <i>Terminalia catappa</i> (Kottan) and <i>Terminalia bellirica</i> (Bulu) seed oils for their potential applications in cosmetic and dietary supplements <u>K.A.H. Thathsara</u> , S.D.M. Chinthaka
412 12:00-12:20	Oxidative stability of mechanically separated chicken meat incorporated with seaweed (<i>Sargassum cristaeforme</i>) powder during frozen storage <u>D.N.C. Thilakarathna</u> , U.H.G. Madushan, K.M.S.S. Fernando, M.A.G.N.D.M.A. Gamage, K.M.N.T.K. Bandara, I.P.A.U.N.K. Illippangama, R.K. Ahinsa, S. Thiranagamage, S. Jayakodi, D.K.D.D. Jayasena

- 419 Investigation of antibacterial activity of wild macro-fungi collected from the Badulla area
12:20-12:40
S.R.S.L.Y. Wijewardhana, N.W. Gunasekara, P.B. Ratnaweera, M.K. Meegahakumbura, A.M.W.K. Senavirathna
- 437 Isolation and identification of yeast strains with high attenuation rate from *Caryota urens* (L.) phloem sap for optimization of the “Kithul” toddy production in Badulla district
12:40-13:00
R.P.D.S. Anurasena, K.M.G.M.M. Kariyawasam, K.B. Wijesekara, G.S.M. Perera
- 13:00-14:00 **SESSION BREAK**
- 440 Development of water soluble and edible sachet packages for ‘Matcha’ tea powder using canistel (*Pouteria campechiana*) starch
14:00-14:20
H.R. Ranathunga, G.A.A.R. Perera, K.P.M. Kahandage, K.D.K. Wanasinghe
- 455 Development of an instant fruit juice mixture from freeze-dried watermelon (*Citrullus lanatus*) powder and evaluation of its quality parameters
14:20-14:40
V.N.W. Rajapaksha, M.P.M. Arachchige
- 463 Assessment of selected microbial quality parameters in Ceylon black tea FBOP grade as affected by Ceylon natural cinnamon flavor
14:40-15:00
A.D.T.N. Jayawardana, S.D.T Maduwanthi, K.R.W. Abewichrama, N.W. Gunasekara, M.P.M Arachcige
- 467 Development of fruit jelly using freeze dried watermelon (*Citrullus lanatus*) powder and evaluation of its quality parameters
15:00-15:20
O.L. Kokuhanadi, M.P.M. Arachchige
- 487 Effect of pineapple peel powder and papaya peel powder on textural quality traits of marinated spent hen breast meat
15:20-15:40
B.G.W.M.A. Aishcharya, K.M.S.S. Fernando, U.H.G. Madushan, K.M.N.T.K. Bandara, I.P.A.U.N.K. Illippangama, E.M.S.B. Edirisuriya, R.K. Ahinsa, D.K.D.D. Jayasena
- 15:40 **END OF SESSION**

Hospitality & Tourism

17th August 2023 (Session I: 11:00–14:40)

Panel Members: **Prof. R.S.S.W. Arachchi** (Sabaragamuwa University of Sri Lanka)
Dr. I.P. Kaluarachchige (University College of Matara, Sri Lanka)
Ms. A.C.I.D. Karunaratne (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
098 11:00-11:20	The impact of YouTube travel vlogs on E-WOM <i>T.M.K. Pramodani, J.A.P.M. Jayasinghe, D.M.C. Dassanayake</i>
118 11:20-11:40	Dark mansions in Sri Lanka as a potential of promoting Dark Tourism; with special reference to Western Province <i>D.K.T. Dangalla, C.P. Danthanarayana, W.M.A.H. Bandara</i>
120 11:40-12:00	Impact of government monetary and non-monetary assistance on rejuvenating the performance of tourism MSMEs in Badulla district, Sri Lanka: A perspective of resource advantage theory <i>M.M.P.K. Munasingha, J.P.R.C. Ranasinghe, R.A.D.D.N. Ranatunga</i>
122 12:00-12:20	Development of nightlife activities in Colombo City: The resident community perspective <i>M.H.D. Ariyaratna, J.P.R.C. Ranasinghe, U.G.O. Sammani</i>
267 12:20-12:40	Cognitive and affective image formation in domestic urban tourism: Investigating the influence of overall destination image on behavioral intentions: A case study of Mirissa, Sri Lanka <i>T. Abeysinghe, L. Yapa</i>
243 12:40-13:00	Impact of green human resource management practices on employee engagement: The role of personality traits in hotel industry <i>N.R.T.M. Sirinayake, C.P. Danthanarayana, U.G.O. Sammani</i>
13:00-14:00	SESSION BREAK
333 14:00-14:20	Investigating the impact of perceived value of luxury rail tourists on their intention to recommend: Mediating effect of tourist experience <i>J.M.S.J. Jayasinghe, C.P. Danthanarayana, H.N. Jayawardena</i>

405

14:20-14:40

Tourists' expectations on willingness to visit Agri-Tourism destination (Special reference to Nuwara Eliya Agro-Ecological Zone)

S.D.A. Sumanapala, K.M.L.M. Gunarathna, D.S. Kodithuwakku

14:40

END OF SESSION

18th August 2023 (Session II: 10:00–15:20)

Panel Members: **Prof. M.S.M. Aslam** (Sabaragamuwa University of Sri Lanka)
Dr. D.M.C. Dasanayake (Rajarata University of Sri Lanka)
Ms. W.G.S.R. Wijesundara (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
116 10:00-10:20	Wellness tourism as a strategy for sustainable development in Sri Lanka <i>T.M.D.T. Munasinghe, A.C.I.D. Karunaratne, H.N. Jayawardena</i>
117 10:20-10:40	Impact of leadership styles on organizational citizenship behavior: Empirical evidence from non-managerial employees in five-star hotels <i>R.D.M.L. Perera, J.P.R.C. Ranasinghe, P.G.S.S. Pattiyagedara</i>
182 10:40-11:00	Analyzing the impact of rural tourism development on standard of living in rural community; with special reference to Dambulla <i>A.N. Lokuwithana, J.P.R.C. Ranasinghe, P.G.S.S. Pattiyagedara</i>
216 11:00-11:20	Unleashing the potential: Affecting factors, barriers and opportunities in community-based tourism; with special reference to Jaffna district <i>M.P.J. Croos, J.P.R.C. Ranasinghe, G.H.V. Harshani</i>
234 11:20-11:40	Identify the mediation impact of destination image to the relationship between brand personality of cultural dancing and destination attractiveness in Southern Province, Sri Lanka <i>E.A.S. Kasunsi, C.P. Danthanarayana, U.G.O. Sammani</i>
269 11:40-12:00	Impact of personality traits on travel motivation of religious tourists <i>R.M.V. Vimanthi, A.C.I.D. Karunaratne, U.G.O. Sammani</i>
350 12:00-12:20	The role of tour operators in the development of sustainable mountain tourism in Sri Lanka <i>I.S. Narampanawa, A.M.D.B. Nawarathna, U.G.O. Sammani</i>
12:20-13:00	SESSION BREAK

Panel Members: **Prof. J.P.R.C. Ranasinghe (Uva Wellassa University of Sri Lanka)**
Dr. S. Munasinghe (Sabaragamuwa University of Sri Lanka)
Ms. K.T.N.P. Abeywickrama (Rajarata University of Sri Lanka)

-
- | | |
|-------------|---|
| 164 | Impact of workplace bullying on operational-level employees' job performance; empirical evidence from star hotels in Colombo district |
| 13:00-13:20 | <i>E.H. Nawanjalee, W.G.S.R. Wijesundara, R.A.D.D.N. Ranatunga</i> |
| 193 | The impact of sticky floor on women's career advancement in hotel industry; with special reference to the Central Province |
| 13:20-13:40 | <i>S.S. Siromiya, W.G.S.R. Wijesundara, R.A.D.D.N. Ranatunga</i> |
| 264 | Impact of tourism gentrification on community life; with special reference to Southern coastal tourism zone, Sri Lanka |
| 13:40-14:00 | <i>W.L. Prasadani, A.C.I.D. Karunaratne, R.N. Wijethunga</i> |
| 298 | Impact of perceived supervisor's leadership styles on organizational commitment of employees in small scale restaurants: with special reference to Colombo district |
| 14:00-14:20 | <i>P.A.K.M. Alwis, W.G.S.R. Wijesundara, R.N. Wijethunga</i> |
| 302 | Prospects and challenges of tea tourism in Sri Lanka: A way forward to a high-yielding tourism segment |
| 14:20-14:40 | <i>W.G.V.D. Kumari, A.C.I.D. Karunaratne, G.H.V. Harshani</i> |
| 426 | Impact of travel motivations on destination choice of backpackers in Sri Lanka |
| 14:40-15:00 | <i>I.P.G.S. Doshith, A.C.I.D. Karunaratne, U.G.O. Sammani</i> |
| 486 | The effect of employee relation on employee performance in food and beverage operations (with special reference to five-star hotels in Colombo district) |
| 15:00-15:20 | <i>D.H.U. Prabuddhini, W.G.S.R. Wijesundara, G.H.V. Harshani</i> |
| 15:20 | END OF SESSION |

Humanities, Social & Library Sciences

17th August 2023 (Session I: 11:00–15:00)

Panel Members: **Prof. V.A. Anand (Alagappah University, India)**
Mr. R. Maheswaran (University of Peradeniya, Sri Lanka)
Mr. M. Rupavathanan (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
015 11:00-11:20	The impact of graduates' job fit on organizational citizenship behaviour with the mediating effect of organizational commitments of the public sector organization in Jaffna district <i>A.R. Ramesh</i>
035 11:20-11:40	Factors affecting to the development of school-level badminton players in Central Province <i>M.D.M.G.C. Maduwanthi, M.R.M.A. Jayasingh, C. Fernando</i>
063 11:40-12:00	Mapping of e-waste based on research publications: A scientometric study <i>T.H.M. Begum, S. Raja, M. Nanthakumar</i>
119 12:00-12:20	Evaluating the awareness of Artificial Intelligence among academic librarians at the University of Kelaniya, Sri Lanka <i>M.A.K.S. Munasinghe</i>
121 12:20-12:40	Developing a conceptual framework for digital transformation of readers services in Sabaragamuwa University library of Sri Lanka <i>W.W.S.T. Warnasooriya</i>
202 12:40-13:00	The path to e-judiciary: Where does Sri Lanka stand? <i>A.J.M.P.S.K Jayaweera</i>
13:00-14:00	SESSION BREAK
249 14:00-14:20	Preservation of traditional folk music in Sri Lanka: Conservation practices and key challenges <i>K. Samarasinghe</i>
273 14:20-14:40	Motivational factors of undergraduates for reading in English: A case study of successful cases <i>V.U. Jayasinghe, W.A.A.K. Amaratunga, J.P.W.K. Abeyewickrama, R.M.N.P. Rajapakse</i>

429

Adopting Artificial Intelligence for digital transformation of University libraries: A review

14:40-15:00

I.D.K.L. Fernando, W.W.S.T. Warnasooriya

15:00

END OF SESSION

18th August 2023 (Session II: 10:00–15:00)

Panel Members: **Mr. M. Rupavathanan** (Uva Wellassa University of Sri Lanka)
Prof. H.M.W.M. Herath (Uva Wellassa University of Sri Lanka)
Ven. Wachissara Thero (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
004 10:00-10:20	An evaluation of the critical functions in English Language classrooms in a university <i>M.T.K. Kuruppuarachchi</i>
019 10:20-10:40	Factors affecting inequality in education in Sri Lanka: A multinomial logistic regression approach <i>D.G.A.M. Wickramanayaka</i>
032 10:40-11:00	Hindi-English pronoun system: A contrastive analysis <i>H.I. Premathilake</i>
110 11:00-11:20	Identify the women's contribution with respect to food and nutrition security: A case study from Palugaswewa tank cascade system, Sri Lanka <i>G.P.W.S. Anuradha, P.B. Dharmasena</i>
131 11:20-11:40	Microsoft Power BI Desktop: An open-source software tool for data visualization in libraries <i>M. Prakash, J. Arumugam, C. Velmurugan, V.A. Anand</i>
136 11:40-12:00	Language and social media: Exploring the impact of digital platforms on linguistic variation and discourse styles in Sri Lanka <i>J.M.A.K. Jayakody</i>
246 12:00-12:20	Ranking of academic social networking websites: A webometric analysis <i>M. Muniyasamy, R. Jeyshankar</i>
301 12:20-12:40	'Right to disconnect' in the information society: Lessons from France <i>A.P. Rathnayake</i>
304 12:40-13:00	Lexical substitution among bilingual children in Sri Lankan context <i>R. Subathini</i>

13:00-14:00

SESSION BREAK

310

An investigation of the spread of the concept of "Kuvera" in Asia

14:00-14:20

H.M.Y.P. Wickramasingha

324

Developing the mathematics teachers' pedagogical content knowledge through algebraic thinking

14:20-14:40

D. D. Rupasinghe, P. R. K. A. Vitharana, A. K. Amarasinghe

415

Existence of traditional performing arts as cultural dialogue

14:40-15:00

R. Thavachchelvi

15:00

END OF SESSION

Material & Mineral Sciences

17th August 2023 (Session I: 11:00–15:20)

Panel Members: **Dr. M.A.R.L. Samaraweera** (Uva Wellassa University of Sri Lanka)
Dr. W.D.C.C. Wijerathne (Uva Wellassa University of Sri Lanka)
Dr. T.G.N.D. Karunaratne (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
052 11:00-11:20	Characterization and differentiation of Chitin and Chitosan extracted from common crustacean species <i>K.I.V. Suraweera, E.D.N.S. Abeyrathne, S.I. Rathnayake</i>
092 11:20-11:40	Development of biodegradable plastic from the leaf extract of <i>Dillenia suffruticosa</i> (Griff. ex Hook. f. & Thomson) Martelli and polyvinyl alcohol <i>H.M.J.S. Heshadi, N.P. Liyanage</i>
132 11:40-12:00	Thermal management of sandwich composites structures with integrated energy storage core <i>P. Mithunesh, H.M.C.M. Herath, A.G.C.S. Amarasinghe</i>
153 12:00-12:20	Magnetic energy of FCC structured ferromagnetic ultra-thin films with three spin layers as described by fourth order perturbed Heisenberg Hamiltonian <i>M.S.M. Farhan, P. Samarasekara</i>
232 12:20-12:40	Study of Nano metal oxide incorporated Zinc phosphate coatings as corrosion inhibitors on mild steel <i>B. Neelampary, R.L. Samaraweera</i>
245 12:40-13:00	Synthesis and characterization of protected Iron nanoparticles <i>A.J.M.D. Sandaruwan, S.I. Rathnayake, M. Rambukwella</i>
13:00-14:00	SESSION BREAK
277 14:00-14:20	Potential synergistic effect of pineapple leaf-mediated Ag-ZnO nanocomposites for enhancing antibacterial activities <i>A.M.S. Aththanayaka, G. Thiripranathar, S. Ekanayake</i>
286 14:20-14:40	Cost effective recycling approach for the anode materials from discarded Lithium-ion rechargeable batteries <i>M.H.M. Shamri, H.P.T.S. Hewathilake, T.H.N.G. Amaraweera, A. Wijayasinghe</i>

316

14:40-15:00

Morphology and crystallography analysis of magnetocalorically significant Ni-Mn-Cu-Ga Heusler alloys

U.D. Jayarathna, P.N.S. Kumara, A.S.B. Madiligama

446

15:00-15:20

Enhancing the performance of Dye-sensitized solar cells with hybrid WO₃/TiO₂ and ZnO/TiO₂ photoanodes using Ruthenium dye (N719)

A.C.W.W.M.N.P. Koswatta, S.D.A. Sandanayaka, C.P. Udawatta, K.R. Koswattage, R.M.K.T. Rathnayaka

15:20

END OF SESSION

18th August 2023 (Session II: 10:00–12:40)

Panel Members: **Dr. A.M.A.N.B. Attanayake** (Uva Wellassa University of Sri Lanka)
 Dr. R.M.S.I. Rathnayake (Uva Wellassa University of Sri Lanka)
 Mr. H.P.T.S. Hewathilaka (Uva Wellassa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
075 10:00-10:20	Determination of the causes for yellow patch formation in natural rubber-based examination gloves <i>M.B.J.M. Fernando, D.M.M. Nandasena, G.R.V.S. Gamlath, A.M.W.K. Senevirathna</i>
103 10:20-10:40	Development of fire-retardant natural latex foam mattress incorporating expandable graphite <i>K.A.H. De Silva, M.N. Wijesinghe, T.A.R.W.M.M.C.G. Bandara, G.R.V.S. Gamlath, M.A.U.G. Meewalaarachchi, B.A.D.U.P. Bulathsingha, A.M.W.K. Senevirathna</i>
170 10:40-11:00	Exploring minerals and sediments: A case study of Badulu Oya through stream sediment survey <i>W.A.P. Weerakoon, K. Mohansingh, E.M.V.W. Wickramarathne, M.N.H.T.N. Deniyawatta, K.G.A.S. Kaushan, C. Kajeewan, A.N. Wijethunga, P.H.V.M. Chandrasena, J.A.D.C. Rashmika, J. Thavendram, P.G.B.R.L. Bandara, M.P.N.T. Fernando, K. Megavarnan, R. Sajiev, V. Meegahapola, S.N.H.B.S. Lakmal, A.H.P.K. Seenigama, K.M.U.S. Chathuranga, S. Abhishakan, P. Vithushan, V. Sinthujan</i>
236 11:00-11:20	Analysis of the novel test method for sodium salt of thiol-mercaptan bleaching agent used in crepe rubber industry <i>K.M.D.I. Kulathunga, G. Abhiram, W.R.N. Alles</i>
276 11:20-11:40	Smart Nano packaging materials for food industry: A short review <i>A.I. Karunasena, D. Dahanayake</i>
306 11:40-12:00	Synthesis, characterization, and determination of antimicrobial activity of Curcumin Schiff base metal complexes <i>R.M.P.D. Rathnayake, M.Y.U. Ganehenegge</i>
370 12:00-12:20	Use of modified corn cob derived cellulose for elimination of metal ions causing water hardness <i>D. Pavithra, M.A.S.R. Senevirathna, J.T. Cooray</i>

383

The effects of organic soil amendments on Nickel phytomining efficiency in Ginigalpelessa Serpentine soil

12:20-12:40

R.M.P. Dilshara, W.T.P.S.K. Senarath, A.M.K.B. Abeysinghe, H.M.R. Premasiri, N.P. Ratnayake, N.P. Dushyantha, A.S. Ratnayake, N.M. Batapola

12:40

END OF SESSION

Sustainable Animal Production

17th August 2023 (Session I: 11:00–13:20)

Panel Members: **Dr. N.M. Nambapana** (Uva Wellassa University of Sri Lanka)
Prof. S.P. Kodithuwakku (University of Peradeniya, Sri Lanka)
Dr. R.M.A.S. Bandara (Sabaragamuwa University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
071 11:00-11:20	Methane emission from cattle in Melsiripura NLDB farm <i>H.G.S.C. Disanayaka, T.S.R. Fernando, R.M.H. Tharangani</i>
134 11:20-11:40	Comparisons of functional properties of blood plasma proteins and their hydrolysates from local goats <i>W.A.U. Dinuranga, E.D.N.S. Abeyrathne, P. Manjula</i>
180 11:40-12:00	Antimicrobial resistant, multidrug-resistant and extended spectrum beta lactamase producing <i>Escherichia coli</i> in fresh retail broiler chicken sells at Kurunegala, Municipal Council and Pradeshiya Sabha area <i>A.B.S. Pabasara, P.A.U. Sewwandi, H.C. Gallage, B.M.Y.I. Basnayake, K.S.A. Kottawatta, R.S. Kalupahana</i>
309 12:00-12:20	Dairy calf management practices that affect animal welfare: Small-scale dairy farms in Badulla district, Sri Lanka <i>P.T.N. Ganegoda, S.N.S.L.H.P. Neelawala, R.M.A.S. Bandara, R.M.H. Tharangani</i>
326 12:20-12:40	Characterization of gastrointestinal helminths in backyard chickens in selected veterinary ranges in Kandy district of Sri Lanka <i>I.P. Nambuge, R.P.V.J. Rajapakse, D.S. Thilakarathne, T.S.R. Fernando</i>
351 12:40-13:00	Prevalence of <i>Salmonella</i> , <i>Escherichia coli</i> and antimicrobial resistance in beef production chain and its associated environment in Kandy district <i>T.M.T. Chathumini, A.B.S. Pabasara, R.P.V.J. Rajapakse, D.S. Thilakarathne, K.S.A. Kottawatte, T.S.R. Fernando</i>
466 13:00-13:20	Comparison of growth performance (2 to 16 weeks post-hatch) and MHC-linked LEI0258 marker diversity of Sri Lankan local chicken <i>J.U. Silva, S.P. Macelline, N.M.N. Nambapana, P. Manjula</i>
13:20	END OF SESSION

18th August 2023 (Session II: 10:00–13:00)

Panel Members: Prof. E.D.N.S. Abeyrathne (Uva Wellassa University of Sri Lanka)
Prof. R.K. Mutucumarana (Sabaragamuwa University of Sri Lanka)
Mr. D. Dissanayake (Wayamba University of Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
135 10:00-10:20	The effect of room temperature on the shelf life of eggs collected from the chicken reared in the battery cage system <i>K.M.R. Sandakelum, R.M.T.B. Ramanayaka, J. Zaffar, E.D.N.S. Abeyrathne</i>
179 10:20-10:40	Effect of transportation distance on the occurrence of PSE and DFD conditions in chicken meat at a commercial broiler processing plant and their impact on quality traits of raw and smoked breast meat <i>N.D. Tissera, S.P. Macelline, K.M.N.T.K. Bandara, A.J.M.A.D. Adhikari, S.R. Nawarathne, D.K.D.D. Jayasena</i>
294 10:40-11:00	Effect of hatching eggs storage duration on embryonic development and yolk-free biomass in Cobb 500 broiler <i>K.W.I. Eranga, P. Kumara, P. Manjula</i>
303 11:00-11:20	Consumption of animal origin foods by the undergraduates of regional universities in Sri Lanka during the economic crisis <i>N.M. Alahakoon, K.M.N.T.K. Bandara, D.K.D.D. Jayasena, S.N.S.L.H.P. Neelawala</i>
320 11:20-11:40	Growth performance and quality evaluation of fresh and ensiled Napier cultivars (<i>Pennisetum purpureum</i>) <i>S.H. Bulathgama, R.M.H. Tharangani</i>
325 11:40-12:00	Comparative analysis of the nutrient composition of two corn varieties (Ruwan and Badhra) grown in Sri Lanka <i>H.M.G.N. Herath, R. Samarakoon, S.S. Wickramasuriya, N.M.N. Nambapana</i>
337 12:00-12:20	Effect of rearing substrate on waste reduction efficiency and nutrition composition of black soldier fly (<i>Hermetia illucens</i>) larvae <i>S.K.A.P. Imasara, W.L.B. Perera, S.S. Wickramasuriya, N.M.N. Nambapana</i>

352

The effect of xylanase enzyme treated parboiled rice offal on broiler growth performances and meat quality

12:20-12:40

P.M.V.C. Premarathna, A.A.S.S.M. Amarasinghe, D.K.D.D. Jayasena, S.S. Wickramasuriya, N.M.N. Nambapana

393

Factors affecting the physicochemical properties of duck meat

12:40-13:00

M.A.G.N.D.M.A. Gamage, K.M.S.S. Fernando, U.H.G. Madushan, K.M.N.T.K. Bandara, D.K.D.D. Jayasena

13:00

END OF SESSION

Sustainable Crop Production

17th August 2023 (Session I: 11:00–16:20)

Panel Members: **Dr. M.G.M. K. Meegahakumbura** (Uva Wellassa University of Sri Lanka)
 Prof. K.G. Premathilake (Uva Wellassa University of Sri Lanka)
 Dr. T. Geretheran (Eastern University of Sri Lanka)
 Dr. R. Bawatharani (Eastern University of Sri Lanka)
 Dr. N. Fernando (University of Melbourne, Australia)
 Dr. C. Ranawana (Uva Wellassa University of Sri Lanka)
 Dr. W. Jayasinghe (University of Peradeniya, Sri Lanka)

Paper ID Time	Title of Abstract Names of Authors
108 11:00-11:20	Effect of pyrolysis temperature on yield and chemical composition of coconut husk biochar: A characterization study <i>D.M.N.S. Dissanayaka, S.K.Shamila, S.S.Udumann, T.D.Nuwarapaksha, A.J. Atapattu</i>
160 11:20-11:40	Effect of biochar on pest and disease management in crops: A meta-analysis and a systematic review <i>P.U.S. Peiris</i>
259 11:40-12:00	Phosphorous fractionation in tropical rainforest and montane forest soils along an altitudinal gradient of Sri Lanka <i>K.D.I. Madhumali, H.M.S.K. Herath, H.M.K.S. Bandara, S.M.T.N. Samarakoon, R. Chandrajith, J. De Costa</i>
457 12:00-12:20	Potential use of biofilm biofertilizers in fully organic rice cultivation of Sri Lanka <i>M.H. Navodya, M. Premarathna, G. Seneviratne, N.W. Gunasekara, H.M.S.K. Herath</i>
12:20-14:00	SESSION BREAK
081 14:00-14:20	Propagation of <i>Psidium friedrichsthalianum</i> (O.Berg)Nied. (Myrtaceae) using stem cuttings <i>H.H.K.R.R. Hettiarachchi, I.D. Singhalage, G.A.D. Perera, A.A.C.B. Alahakoon</i>
036 14:20-14:40	Role of exogenous gibberellic acid in mitigating drought stress in immature tea plants (<i>Camellia sinensis</i>) <i>M.M.N. Damayanthi, T.L. Wijeratne, J.W. Damunupola</i>
220 14:40-15:00	Evaluate the effect sugarcane distillery spent wash on growth and yield of paddy (<i>Oryza sativa</i>): Bg 300 variety <i>M.A.D.D. Kaushalya, N.V.T.J. Vithanage, U.M.A.K. Udawasala</i>

428	Effect of IBA and NAA on rooting of top cuttings of <i>Dracaena surculosa</i> var. <i>punctulate</i>
15:00-15:20	H.K.V.K. Heendeniya, N. Nakandalage, <u>W.R.S. Jayawardhana</u> , W.M.L.D. Weerakoon
460	Potential of compost tea as an organic liquid fertilizer for hydroponics
15:20-15:40	<u>D.M.W.G.M.J.B. Dissanayake</u> , U.G.A.T. Premathilake, G.P.A.N. Weerasooriya
441	Effect of different drying techniques on physicochemical properties of turmeric (<i>Curcuma longa</i>)
15:40-16:00	<u>D.S.B. Delgahapitiya</u> , W.M.N.M. Wijesundara, I.V.D.C.S. Induruwa
250	Assessing the ethnoclimatology knowledge and adaptation practices of organic tea farmers in the Uva high grown region
16:00-16:20	<u>K.A.D.P. Kumarasingha</u> , M.K.S.L.D. Amarathunga, S. Ranaweera, A.M.C. Amarakoon, C.K. Welhena
16:20	END OF SESSION

18th August 2023 (Session II: 10:00–15:20)

Panel Members: **Prof. A.M.W.K. Senevirathna** (Uva Wellassa University of Sri Lanka)
 Dr. R. Eeswaran (Jaffna University of Sri Lanka)
 Dr. P. Kandeeparoopan (Eastern University of Sri Lanka)
 Dr. A. Wijesekara (Sabaragamuwa University of Sri Lanka)
 Dr. N. Nakandala (Ruhuna University of Sri Lanka)
 Dr. H.A.S.L. Jayasinghe (CSIRO Australia's National Science Agency, Australia)
 Dr. G.A. Sopha (National Research and Innovation Agency, Indonesia)

Paper ID Time	Title of Abstract Names of Authors
237 10:00-10:20	Performance of intercropped <i>Annona muricata</i> , <i>Citrus sinensis</i> and <i>Psidium guajava</i> under two spatial arrangements of <i>Hevea brasiliensis</i> in low country intermediate zone of Sri Lanka <i>K.M.U. Madhusankhani, T.U.K. Silva, T.T.D. Dharmarathna, A.M.W.K. Senevirathna</i>
479 10:20-10:40	Effect of artificial light on growth and leaf quality of betel (<i>Piper betle</i> L.) <i>R.M.S.D. Samarathunga, R.A.D.R.A. Ranasinghe, S.R.W.M.C.J.K. Ranawana, P.W. Jeewanthi</i>
443 10:40-11:00	Comparative evaluations of the nursery performance of tea (<i>Camellia sinensis</i> L.) cultivars under conventional and coco pith based potting media <i>M.V.T. Tharuka, M.K. Meegahakumbura, R.K.R.M.A. Gunasena, G. Abhiram, A. Abeysooriya</i>
447 11:00-11:20	Evaluation of grafting using different rootstocks for management of bacterial wilt in tomato caused by <i>Ralstonia solanacearum</i> <i>P.C.N. Ananda, D.S. Kekulandara, M.S.W. Fernando, N.M.C. Nayanakantha, D.M.K. Dissanayake</i>
283 11:20-11:40	Assessing the effectiveness of organic tea smallholder organization models for the sustainability of agri-business supply chain of bio tea <i>R.P.K.D. Herath, M.K.S.L.D. Amarathunga, S. Ranaweera, M.G.P.P. Mahindaratne, A.M.C. Amarakoon, C.K. Welhena</i>
408 11:40-12:00	Risk in Sri Lankan up-country vegetable farming: Sources, attitudes, and management strategies <i>D.N. Wijesinghe, G.H.I. Anjalee</i>
12:00-13:00	SESSION BREAK

- 462** Study the inheritance of rust resistance gene *Ur-3** in common bean
13:00-13:20 A.B.M.C.W. Abeykoon, G.D.G. Chathurani, M.K. Meegahakumbura, G.Y.A.D.D. Perera, R.M.S. Dhanushka
- 072** Evaluation of crown gall disease resistance in hybrids of *Rosa* 'PEKcougel' and tetraploid of *R. multiflora* 'Matsushima No.3'
13:20-13:40 Wu Weijun
- 242** Determining the effectiveness of selected nucleopolyhedrovirus isolates against *Spodoptera litura* larvae infestations in horticultural crops
13:40-14:00 H.P.B. Wijerathne, K.M.D.W.P. Nishantha, A.N.R. Weerawansha, S.W.G.A.N. Kumari
- 314** Investigating the synergistic effect of exposure time and dosage of phosphine gas on the control of rice weevil (*Sitophilus oryzae*) infestation in stored rice grains in Sri Lanka
14:00-14:20 K.K. Sandaruwan, A.N.R. Weerawansha, L.C. Hewage
- 448** Evaluation of brown plant hopper *Nilaparvata lugens* (Stål) resistance in selected traditional rice varieties in Sri Lanka
14:20-14:40 R.A.D.S.S. Pushpakumari, D.S. Kekulandara, N.M.C. Nayanakantha
- 458** Screening of brinjal germplasm for resistance to bacterial-wilt caused by *Ralstonia solanacearum*
14:40-15:00 I.P.G. Dilshani, D.S. Kekulandara, M.S. Fernando, N.M.C. Nayanakantha, D.M.K.K. Dissanayake
- 244** Effects of sodium hypochlorite and ethanol to control the mite attacks in tissue culture
15:00-15:20 N.S. Jayawardhana, A.N.R. Weerawansha, M.C.L. Aththanayake
- 15:20 **END OF SESSION**

Committees – IRC UWU 2023

Organizing Committee

Patron	: Prof. J. L. Ratnasekera
Coordinator	: Dr. (Eng) H.M.C.M. Herath
Secretary	: Eng. Mr. M.N.P. Dushyantha
Assistant Secretaries	: Mrs. W.S.P. Wagasenevi Ms. H.M.B.N. Wickramasooriya
Faculty coordinators	: Prof. N.P. Ravindra Deshappriya Dr. A.A.G.D. Amarasooriya Dr. M.W.A.C.S. Wijetunga Eng. G.A.A.I. Tennakoon
Library	: Dr. T. Pratheepan

Activity

Team Members

Digital Media, CMT, and Web Management

Dr. M. Ramashini

Ms. A.M.N.D.K. Attanayake
Mr. M. Janotheepan
Mr. M.N.T. Nandasena
Mr. S.J.M.D.P. Samarakoon
Mr. I. Weerasundara

Hospitality

Mr. R.G.D.R. Jayawickrama

Ms. G.H.V. Harshani
Ms. H.N. Jayawardena
Ms. M.U.M.H.S. Wijebandara
Ms. G.D.M.T.N. Gamage
Mr. M.N.M. Rawshan
Ms. H.A.I.L. Hettiarachchi
Ms. M.A.K.D. Mallikarachchi
Ms. K.M.D.N. Karunarathna

Programme Booklet & Proceedings

Dr. T.G.N.D. Karunarathne

Dr. R.M.T.C.B. Ekanayake
Mr. J.M.S.M. Jayasekara
Mr. W.A.P. Weerakoon
Dr. H.K.G.K.D.K. Hapuhinna
Ms. G.D.M.T.N. Gamage
Ms. M.P.A.M. Rathnakumara
Ms. R.B.M.B.N. Ramanayake
Ms. W.S.N. Wickramathunga
Ms. Y.G.R.M.A.G. Rathnayaka

Fund Raising

Prof. N.P.Ravindra Deshappriya

Dr. A.A.G.D. Amarasooriya

Dr. M.W.A.C.S. Wijetunga

Eng. G.A.A.I. Tennakoon

Invitations and Registration

Dr. K.M.R.K. Kulathunga

Ms. H.G.P.S.C. Dilhani

Mrs. M.J.F. Azrha

Mrs. A.P.N.M.K. Thilakarathna

Mr. S.J.D.J. Pasan

Hall Arrangements

Dr. N.H.L. Pradeepa

Mr. M. Jayawickrama

Mr. H.D. Malinga

Mr. C. Sampath

Mr. A.C.P. Aththaragama

Mr. I.P.K. Ranasinghe

Ms. I. P. Dharmathilaka

Ms. H.J. Sithari

Mr. I.B.P.B. Sriyananda

Ms. R.R. De Silva

Certificate Designing & Printing

Ms. R.M.G.N. Rajapaksha

Dr. K. N. Wijayasekara

Ms. S. Maathumai

Ms. G.R.V.S. Gamlath

Logistics

Eng. S.D.R. Lakmal

Ms. W.P.M. Perera

Mr. G.D.W.J. Godawela

Mr. A.G.C.S. Amarasinghe

Ms. M.T.U.D. Mallikarathne

Mr. R.M.C.D.K. Rathnayake

Medals, Souvenirs and certificates

Dr. N.W. Gunasekara

Dr. A.S. Mahaliyana

Ms. M.P. Charithangi

Ms. T.A.N.T. Perera

Ms. K.P.M. Kahandage

Conference Track Coordinators


Track	Coordinators	Supportive Staff
Aquatic Sciences	Ms. A.C.W.W.M.C.L.K. Coswatte Mr. E.P.D.N. Thilakarathne	Ms. C.P. Illangasingha Ms. K. Kobitha Ms. T.H.K.U. Ananda Ms. A.D.S.M. Dharmasena
Business Economics, Accountancy & Finance	Dr. H.L.N. Wasantha Ms. A.G.N.K. Fernando	Ms. L.M.I.M. Lewliyadda Mr. W.M.H.P. Bandara
Computing & Informatics	Mr. N.E.C. Jayasekara Ms. W.B.M.S.C. Wijayakoon	Ms. S.A.D. Ravindra Mr. U.E. Ranasooriya
Engineering & Technology	Mr. A.R.P.C.C.J. Amarasinghe Mr. P.G.S.R. Wijetunga	Ms. R.M.T. Lakmali Ms. M.P.A.M. Rathnakumara
Entrepreneurship & Business Management	Ms. T.G.A.H.C. Amarawansa Ms. K.J.T. Perera	Ms. K.M.N. Jeewanthi Ms. L.V.M.G. Vithana
Environmental Sciences	Mr. W.A.P.P. Christopher Mr. W.A.P. Weerakoon	Mr. N. Jayalath Mr. B. Weerasinghe
Food Science & Bioprocesses	Dr. A.M.N.L. Abesinghe Dr. K.M.G.M.M. Kariyawasam	Ms. D.M.K.S. Dissanayake Mr. H.P.D.P. Pathirana
Hospitality & Tourism	Mr. W.M.A.H. Bandara Ms. C.P. Danthanarayana	Ms. R.A.D.D.N. Ranathunga Ms. P.G.S.S. Pattiyaedara
Humanities, Social & Library Sciences	Mr. T.M.P.S.I. Thennakoon Dr. T. Pratheepan	Mr. D. Wijayasekara Ms.O. Jayathilake
Material & Mineral Sciences	Dr. P.N.S. Kumara Mr. R.G.C. Jaliya	Ms. S.S. Garusinghe Ms. E.K.T. Madushani
Sustainable Animal Production	Dr. S.N.S.L.H.P. Neelawala Dr. T.S.R. Fernando	Ms. N.S. Ranathunga Mr. U.H.G. Madhusan
Sustainable Crop Production	Dr. A.N.R. Weerawansa Ms. B.C.H. Maduwanthi	Ms. A.M. Weerasinghe Ms. G.R.V.S. Gamlath Ms. H.A.I.L. Hettiarachchi Ms. K.M.D.N. Karunarathna

Past Symposia

Specializing in entrepreneurial higher education in Sri Lanka, Uva Wellassa University (UWU) is driven with the vision to promote creative thinking and the creation of knowledge and ideas of value.

1ST RESEARCH SYMPOSIUM


"Value Addition to the Natural Resource Base"

 : September 16 and 17, 2010

Under the theme of "Value Addition to the Natural Resource Base" the 1st research symposium of UWU was held in September 2010 with 176 research presentations that came under five thematic areas. Several lab-scale breakthroughs that were presented were highlights of the symposium.

2ND RESEARCH SYMPOSIUM


"Towards a Knowledge Economy"

 : December 15 & 16, 2011

The 2nd symposium took place in December 2011 under the theme "Towards a Knowledge Economy." Undergraduates of UWU, academics, scientists, industrialists, and entrepreneurs from both local and international levels found a platform to deliberate, debate, and exhibit their research outputs, innovative ideas, and entrepreneurial ventures at this symposium. Research work falling under the fields of Animal Science, Export Agriculture, Computer Science, Management, and Science & Technology were shared at this conference.

3RD RESEARCH SYMPOSIUM


"Meeting Global Challenges via Knowledge and Wisdom"

 : November 22 & 23, 2012

The 3rd symposium, themed "Meeting Global Challenges via Knowledge and Wisdom," which was held in November 2013, opened its doors to students from three other degree programs including Tea Technology and Value Addition, Mineral Resources Technology, and Industrial Information Technology to present their research findings. The introduction of a novel presentation format, the poster session, provided an alternative opportunity for presenters who found oral presentations to be a challenge.

4TH RESEARCH SYMPOSIUM


"Value Addition towards Economic Growth and Prosperity"

 : December 12 & 13, 2013

December 2013 saw the 4th research symposium which provided a platform for researchers to converse about the cutting-edge work they have been doing. The theme, "Value Addition towards Economic Growth and Prosperity," created a space ideal for scholars who wanted to demonstrate their innovative knowledge in research. Further, the symposium contributed to the social wellbeing and development of Sri Lanka.

5TH RESEARCH SYMPOSIUM


"Value Addition for Sustainable Development"

 : January 29 & 30, 2015

The 5th research symposium took place in January 2015, a space for young and promising researchers to present their work to, interact with and learn from one another under the theme "Value Addition for Sustainable Development." The symposium covered all the degree programs offered by UWU through several parallel technical sessions. The poster session of the symposium was an added opportunity for the researchers.

6TH RESEARCH SYMPOSIUM

"Towards Emerging Trends in Value Addition"

 : January 28 & 29, 2016

The 6th UWU research symposium themed "Towards Emerging Trends in Value Addition" offered a forum to share current research on value addition. With the advancement of technology, innovation play an integral role in excelling development. Held in January 2016, the symposium welcomed a number of researchers, academics, professionals, practitioners, and undergraduates who were eager to change the way we see the world. From over 350 submissions, 215 abstracts were selected through the review process to present under 15 thematic areas.

1ST INTERNATIONAL RESEARCH SYMPOSIUM

"Global Trends in Technopreneurial Development"

[1]: January 19-21, 2017

Having conducted six research symposiums that laid a path for homegrown ideas and innovation to flourish, in January 2017, the symposium went international. The 7th research symposium of UWU bore the theme "Global Trends in Technopreneurial Development." This first International Research Symposium was also referred to as IRSUWU 2017. The 1st International Research symposium hosted work that was done under its sub themes: Agriculture, Biology, Computer Science, Food Science, Process Engineering, Management Science, and Earth Sciences.

2ND INTERNATIONAL RESEARCH SYMPOSIUM

"Emerging Technologies for an Innovative Green Economy"

[1]: February 1-3, 2018

Uva Wellassa University organized its 2nd International Research Symposium that was themed "Emerging Technologies for an Innovative Green Economy," in February 2018. The gathering that convened at the university premises in Badulla encouraged researchers engage with each other's findings and share them with the rest of the world.

3RD INTERNATIONAL RESEARCH CONFERENCE

"Sustainable Business Transition via Technology and Innovations"

[1]: February 7-9, 2019

The International Research Conference of Uva Wellassa University 2019 took place in February 2019 at UWU premises under the theme "Sustainable Business Transition via Technology and Innovations." The Vice Chancellor Prof. J.L. Ratnasekera presided over the conference's opening session. Over 800 participants, including 45 participants from Australia, New Zealand, Japan, and India presented here. IRCUWU2019 consisted of 18 tracks under different thematic areas. A sum of 592 papers were presented in oral (358) and poster (234) formats.

4TH INTERNATIONAL RESEARCH CONFERENCE

"Sustainable Business Transition through Information and Knowledge Dissemination"

[1]: July 29 & 30, 2020

With the year 2020 came the global Covid-19 pandemic that changed the ways in which human beings interacted. As a sensible step, UWU was proactive in organizing IRCUWU 2020 themed "Sustainable

Business Transition through Information and Knowledge Dissemination” as an online conference. IRCUWU 2020 was a historical moment for Uva Wellassa University and Sri Lanka as it is the first large scale online research conference organized by a Sri Lankan State University where a total of 356 research papers were presented under 11 thematic areas.

5TH INTERNATIONAL RESEARCH CONFERENCE

“Exploring Potentials in Challenging Periods”

📅: July 1 & 2, 2021

Following the previous year’s format IRCUWU 2021 too was held virtually in July 2021 under the theme “Exploring Potentials in Challenging Periods”. Over 250 research papers were presented under 10 thematic areas at this conference. The two-day virtual conference consisted of an inaugural session which was followed by three technical sessions.

6TH INTERNATIONAL RESEARCH CONFERENCE

“Elevating the Quest for Resilience to Spring Forward”

📅: July 28 & 29, 2022

The 6th International Research Conference was held in July 2022 as an online conference under the theme of “Elevating the Quest for Resilience to Spring Forward”. 221 research abstracts were presented under ten thematic areas. Researchers, scientists, scholars, industrialists, professionals, and students came together to share and review their novel findings and innovations.



#IRC UWU 2023
17th & 18th
August 2023



Hybrid Conference

“Digitalization for Transition to Circular Economy Ecosystems”
7th International Research Conference of Uva Wellassa University





Uva Wellassa University



Nestled amidst the enchanting misty mountains of Badulla, within the Uva Province, lies the remarkable Uva Wellassa University of Sri Lanka. It stands apart not only for its captivating natural beauty and refreshing cold climate but also for its distinction as the nation's pioneering entrepreneurial university. Operating under the guiding principle of "Value Addition to the National Resource Base," this relatively new institution focuses on producing versatile and business-savvy graduates to bridge industry gaps and contribute to the nation's long-term development.

Uva Wellassa University, founded as Sri Lanka's 14th national university in 2005, currently comprises five faculties: Faculty of Animal Science and Export Agriculture, Faculty of Applied Sciences, Faculty of Management, Faculty of Technological Studies, and Faculty of Medicine. Each faculty offers degree programs specifically designed to enhance different aspects of Sri Lanka's diverse resource base, encompassing Aquatic Resources, Animal Science, Export Agriculture, Tea, Palm & Latex Technology, Mineral Resources, Hospitality, Tourism & Events Management, Human Resources, Entrepreneurship, Science and Technology, Information Technology, and Biosystems and Engineering Technology.

Since its inception, UWU has excelled in producing tech-savvy graduates highly specialized in their respective fields, equipped with valuable soft skills like effective communication, creativity, rational thinking, and positive attitudes. The university places a strong emphasis on its teaching, learning, and research experiences, highlighting the needs, gaps, and possibilities in adding value to the nation's resources.



The university benefits from a dynamic and youthful team of highly capable lecturers, each contributing their diverse knowledge, skills, and experiences to enhance the teaching and learning environment. Uva Wellassa University prides itself on providing a solid foundation for scientific research across various disciplines, with the invaluable guidance of seasoned scholars. The university's scientific

research endeavors are closely aligned with its vision of adding value to the nation's resource base, emphasizing their efficient utilization and optimization. The university's annual International Research Conference serves as a prestigious platform for students to showcase their research and gain valuable insights while fostering interactions with experts from both industry and academia.



The university experiences a steady growth in student enrollment each year, currently accommodating more than 4000 undergraduate and postgraduate students. These students actively participate in a wide range of extracurricular activities that not only benefit the local community and the university but also contribute to their own personal development and skills enhancement.

Uva Wellassa University takes its role as a knowledge hub seriously, engaging in various activities to facilitate the sharing of knowledge, experiences, and resources with the local community. The University Business Linkage Cell, faculty's technology transfer cells, and other service centers play a crucial role in bridging the gap between the university and society, facilitating the dissemination of relevant resources. Additionally, the university organizes programs to address societal needs as they arise.

An essential focus for Uva Wellassa University is advocating for sustainable development and promoting environmentally friendly practices and alternatives. Within a stimulating environment that encourages innovation, the university nurtures its undergraduate students. The impact of the university's efforts is evident in its alumni, who exemplify the institution's ability to produce well-rounded, employable, technologically savvy, and entrepreneurial graduates.

With unwavering dedication, Uva Wellassa University continuously strives to fulfill its vision of adding value to Sri Lanka's resource base, ultimately contributing to the country's socio-economic advancement.



Main Sponsors

IRCUWU 2023 Partners and Sponsors

Gold Partner

BANK OF CEYLON



Bankers to the Nation

Silver Partners



Sponsors



Technical Partner

