

PROGRAMME

1-2 December 2023



FARU 2023

16th International
Research Conference



1st December 2023

Auditorium, Rupert Peiris Building

12.30pm- 1.30pm Inauguration 1.15pm- Participants to be seated

1.30pm Welcome
Lighting of the Oil Lamp and Opening Session
Theme Introduction

02.00pm- 2.45pm Keynote Address 01
Professor Charles Egbu,
Vice Chancellor,
Leeds Trinity University, United Kingdom.

02.45pm- 3.00pm Sponsor Segment

03.00pm- 3.45pm Keynote Address 02
Professor Hisham Elkadi,
Professor in Architecture,
School of Science, Engineering and Environment
University of Salford, United Kingdom.

04.00pm Sum up

04.15pm Refreshments and Networking



ORGANIZED BY



FARU FACULTY OF ARCHITECTURE
RESEARCH UNIT
UNIVERSITY OF MORATUWA, SRI LANKA

2nd December 2023

09.00am–10.10am

Session 01 – Main Auditorium

Innovative Construction Technologies and Perception Enhancement

Session Chair : Prof. Kanchana Perera

Session Co-chair : Dr. Menaha Thiyaparan

PA_71 Leveraging BIM Technology for Improved Accuracy in Detailed Cost Estimation in Sri Lanka

Apinayan K., Perera B.A.K.S., Weerasooriya D. & Ranadewa K.A.T.O.

09.00am

PA_96 Empower Communities: Integrating Scientific and Stakeholder-Based Knowledge to Simulate Future Urban Growth Scenarios Using Advanced Technology for Built-Form Simulation

Hasan F. & Jayasinghe A.

09.10am

PA_81 Data-Driven Framework for Analyze the Visual Quality of Streets: A Systematic Measurement of Street Quality through Street View Images Utilizing Deep Learning Algorithms

Wickramasinghe P. & Jayasinghe A.B.

09.20am

PA_57 Building Information Modelling as a Dispute Avoidance Mechanism in Sri Lankan Construction Projects

Jayathna H.M.M.U., Francis M. & Liyanawatta T.N.

09.30am

PA_72 Awareness and Perception of Quantity Surveyors Toward the Smart Construction Concepts

Rajapaksha R.S.V., Devapriya K.A.K. & Parameswaran A.

09.40am

09.50am– 10.10am Question and Answer Session

10.10am– 10.30am TEA

09.00am–10.10am

Session 02 – Mini Auditorium – Basement

Urban Spaces: Diversity, Identity, and Community

Session Chair : Prof. Jagath Munasinghe

Session Co-chair : Dr. Chethika Abenayake

PA_52 Solitude for Urban Dwellers through “Urban Blue Spaces” in Colombo

Fonseka. W. D. K. & Coorey. S. B. A.

PA_53 The Relevance of Open Space as a “Third Place” Among Urban Low-income Neighborhoods: A Study Based on Colombo

Nimashi K.D.S & Dharmasena J.

PA_67 Fictive Home: The Politics of Urban Homemaking of Hijras in Khulna, Bangladesh

Podder A.K. & Shahidullah F.B.

PA_88 Confluence of Music and Architecture through Artistic Parallelism; A Study of Current Building Aesthetics in Advanced Music Learning Institutes with Special Reference to the University of Performing Arts in Colombo.

Ramanayake. R.I.A. & Herath. H.M.K.D

PA_61 Rethinking Streets as a Potential Urban Scope A case of densely packed neighbourhoods of Dhaka city

Ta-Sin L.M. & Amin S.

09.50am– 10.10am Question and Answer Session

10.10am– 10.30am TEA

2nd December 2022

10.30am-11.40am

Session 03- Main Auditorium

Methods, tools and practices in delivering sustainable solutions

Session Chair : Prof. Anuradha Waidyasekera

Session Co-chair : Dr. Wajishani Gamage

10.30am
PA_55 A Critique on Thermal Performance and Energy Usage in Government Office Buildings in Trincomalee and the Need for Sustainable Retrofitting - A Typological Analysis
Harithra N. & Rajapaksha U.

10.40am
PA_90 Evaluation of Effectiveness of Disaster Risk Transfer Mechanisms in Sri Lanka
Lilackshani N.

10.50am
PA_76 Adapting Sustainable Energy Features to Existing Condominium Building Stock in Sri Lanka
Rathnasiri K.K.E.A.S.K, Gamage I.S. & Lingasabesan. V.

11.00am
PA_58 Sustainable 3R Initiative Practices in the Sri Lankan Large-Scale Leather Footwear Industry
Suriyarachchi. D.P., Nugawela. C.T. & Dissanayake. M.K.

11.10am
PA_77 Facilities Manager's Involvement for Establishing Desalination Plants
Yatawatta Y.J.M & Sridarran P.

11.20am- 11.40am Question and Answer Session

11.40am- 01.00pm LUNCH

10.30am-11.40am

Session 04- Mini Auditorium - Basement

Sustainable construction management

Session Chair : Prof. Nayanthara De Silva

Session Co-chair : Dr. Pournima Shridarran

PA_59 Developing a Definition for Lean Construction Maturity Models through a Prisma Systematic Literature Review
Jayanetti J.K.D.D.T, Perera B.A.K.S & Waidyasekera K.G.A.S

PA_69 Investigating the Effects of Built Environment on Coastal Scenery: Coastal scenic assessment of the Southern coastal belt of Sri Lanka
Kalhara. G.W.D. & Rajapaksha. I. G. P.

PA_64 MEGA-LED Urbanization and the Transformation of Peri-Urban Tissue: The Case of Khulna, Bangladesh.
Aziz N. & Podder A. K.

PA_65 Analysing the Significant Factors for Land use Impact Assessment in Building Construction Projects in Sri Lanka : Whole Life Cycle Analysis Approach
Jayasundara. S.W., Mallawaarachchi. H., Damsari. A.G.U. & Gunathilake P.K.S.V.S.

PA_66 Quantity Surveyor's Role towards Circular Economic Principles in the Pre-Contract Phase of Construction Projects in Sri Lanka
Jayawardhana N.G.T.S. & Withanage K.T.

11.20am- 11.40am Question and Answer Session

11.40am- 01.00pm LUNCH

2nd December 2022

1.00pm – 2.30pm

Session 05 – Main Auditorium

Green products, buildings and cities

Session Chair : Prof. Narein Perera

Session Co-chair : Dr. Wajishani Gamage

PA_94 An Investigation of Effective Community Driven Material Recovery Facility (MRF) in Urban Waste Management – A Case Study of MRF in Wattala
Herath C.D & Noordeen R.

01.00pm

PA_70 Framework to Reduce Embodied Energy in Buildings: A Literature Review
Ilankoon I.W.M.A.D., Soorige S.D.A. & Gunathilake P.K.S.V.S.

01.10pm

PA_84 Branding Heritage Crafts in Sri Lanka: Contribution of Experiential Architecture via Strategies of Experiential Marketing
Karunaratne H. & Dharmasena J.

01.20pm

PA_60 Vernacular Courtyard as a Design Strategy for Thermal Performance in Hot Dry Climate with Reference to Residential Buildings in Jaffna, Sri Lanka
Nishinthan K. & Rajapaksha U.

01.30pm

PA_79 Effective Integration of Built Environment with Urban Ramsar Wetlands: An Environmentally Sustainable Design Framework
Sooriya Arachchi. S.A.P.C. & Rajapaksha. I.G.P.

01.40pm

PA_56 A Study on the Impact of Greenery in Building Interiors on the Psychological Well-Being of Occupants
An experimental study with special reference to Personalized Residential Spaces of University Students in Sri Lanka
Welagedara H.M.W.D.M.B. & Hettiarachchi A.A.

01.50pm

2.00–2.30pm Question and Answer Session

2.30– 3.30pm FARU Awards and Closing

3.30 Onwards Refreshments and Networking

1.00pm – 2.30pm

Session 06– Mini Auditorium – Basement

Urban Dynamics: Connectivity, Design, and Sustainability

Session Chair : Dr. Janaka Wijeyesundara

Session Co-chair : Dr. Kamal Wasala

PA_50 Analyses of Walkability in City Centers: A Framework to Assess Walkability Based on Street Conditions, Proximity of Services, & Urban Morphological Conditions
Nissanka S.M. & Jayasinghe A.B.

PA_85 Boundary Wall in Public Library- A Protection for a Site or a Missed Opportunity for an Urban Space
Case Study of Divisional Government Public Library, Rajshahi
Galib Md. M. & Saaj K.B.J.

PA_75 Exploring the Group Dynamics in Pedagogic Design Studio Context
Hettithanthri H.D.D.U. & Munasinghe H.

PA_63 Evaluate the Onsite Three-Wheeler Parking Requirement of Supermarket Developments to Mitigate the Parking-Related Traffic Impact in Colombo, Sri Lanka
Pathiraja A.L.A.C. & De Silva P.C.P.

PA_80 Challenges in Circular Urban Water Management in Construction Industry of Sri Lanka
Weerakoon P., Thayapam M. & Weerakoan T.P.

01.50–2.10pm Question and Answer Session