PROGRAMME

2nd December 2022



Independence and Interdependence of SUSTAINABLE SPACES ***

FARU 2022

15th International Research Conference

2 December 2022 University of Moratuwa, Sri Lanka & Online

ORGANIZED BY



9-00 - 10.30am - 2nd December 2022,

Inauguration - Auditorium, TCP

9.00am Registration

9.15- 9.30am Lighting of the lamp

National Anthem

Welcome Address by

Prof. Yasangika Sandanayake, Dean, Faculty of Architecture Conference Chair, FARU 2022

Theme Address by

Dr. Sumanthri SamarawickramaDirector- FARU, Conference Co-Chair

9.30- 10.15am Keynote Address

Dr. Ajanta Sen

IIT Bombay, Industrial Design Centre, IIT Visiting staff International Director of Solar Project, NUS, Singapore Advisor, Indian Architect and Builder (IA&B), India.

10.30 - 11.00am **Te**a

11.00-12.30pm

Session 01 - Auditorium, TCP

Making places for people

Session Chair : Prof. Indrika Rajapaksha Session Co-chair : Dr. Chethika Abenayake

- PA_39 Evaluation of the Impact of Multiple Factors, Elements and Neighbourhood Patterns on the Spread of Dengue and Covid-19: Special Reference to Colombo 15.

 Ranasinghe R. A. D. M. & Ranasinghe T. K. G. P.
- PA_67 Visual Landscape Characteristics and Tourists' Satisfaction: A Study with Reference to Nuwara-Eliya, Sri Lanka

 H.H.S.P. Sewwandi
- PA_72 Architectural Attributes for Social Sustainability A Framework for Analysing Housing Projects with Special Reference to the Maldives Mohamed, A.N. & Coorey, S.B.A
- PA_80 Spatial Configuration and Neighbourhood Characteristics' Impact on Activities in Informal Spaces: A Case Study Of Badulupitiya Informal Settlements in Badulla Perera, M.K.S. & Coorey S.B.A
- PA_94 Impacts of Covid-19 on Individuals' Behaviour & Perception in Public Space: A Case Study of Colombo, Sri Lanka

 **Udeni Nelum Kumari, Amila Buddhika Jayasinghe & Colombo & Colombo

12.30-1.30pm LUNCH

P.K.S Mahanama

11.00-12.30pm

Session 02 - Mini Auditorium, TCP

Green products, buildings and cities

Session Chair : Dr. Shaleeni Coorey Session Co-chair : Dr. Nadeeka Jayaweera

- PA_41 Applicability of Circular Economy for the Electronic Waste Minimization in Sri Lankan Office Buildings Mafra. M.T. F, Gowsiga. M, Asmone. A. S & Dilogini R. A. A
- PA_63 Applicability of Green Certification System for Domestic Construction Projects in Sri Lanka

 Perera. B. L. S. H., Ranathunga. R. A. A. S, Madhuwanthi. L. P. T.

 P. & Coomasaru. P.
- PA_52 Integration of Formal and Informal Sector in Waste Management System in Sri Lankan Cities, Special Reference to Homagama

 Perera L.H.R. & Ranasinghe T.K.G.P
- PA_92 Prospect of Establishing Smart Car Park System for Commercial Buildings In Sri Lanka.

 Abeynayake M.D.T.E. & Menoli Kaushalya P.L.
- PA_96 Occupational Health and Safety of Municipal Solid Waste Handlers in Sri Lanka

 Thisakya P.G & Dissanayake D.M.P.P.

12.30-1.30pm LUNCH

11.00-12.30pm

Session 03- Studio 3-4th Floor, TCP

Integrated systems, policy and governance

Session Chair : Prof. Jagath Munasignhe Session Co-chair : Dr. Rizvi Noordeen

PA_45 City as a System of Systems; And Evaluation of "Urbanity" in Post-Pandemic Space Logapawan J. & Pathiraja M.

PA_48 A Methodological Approach to Re-Image the City the Case of Galle City, Sri Lanka

Tharaka M. H. H. S. & Rathnayake R. M. S. R.

PA_50 Street as a Place: A Study of Sense of Place in Commercial Streets of Jaffna, Sri Lanka

Kethusha K. & Sooriyagoda K.G.

PA_22 Role of Urban Planning & Design Interventions in Strengthening the Sense of Place of Historic Sites in Kurunegala, Sri Lanka

Subasingha S.M.V.U., Rathnayake R. M. S. R.

12.30-1.30pm LUNCH

11.00-12.30pm

Session 04- Studio 4- 4th Floor, TCP

Methods, tools and practices in delivering sustainable solutions

Session Chair : Dr. Anuradha Waidyasekera Session Co-chair : Dr. Pournima Shridarran

PA_54 Estimate the pass-by and Diverted Trip Impact Generated by a Supermarket in Colombo, Sri

A.L.A.C. Pathiraja, P.C.P. De Silva & A.B. Jayasinghe

PA_81 Impact of Vernacular Architecture Elements on Patient Waiting Experience in Rural Government Hospitals in Sri Lanka

Rathnayake S.D. & Gamage W. O.

PA_55 The Visual Characteristics of Railside Landscape for Tourists' Satisfaction

Guruge. S.P.P.G.D.K & De Silva. W

PA_56 Mamoty as a Manual Handling Traditional Agriculture Tool; Impact of Its Form and Structure for User Experience

Perera. W.P.S.G & Dissanayake. M.K

PA_166 An Investigation of the Process of Commercial Gentrification & Optimum Utilization of Land at Neighbourhood Levels

Dinithi Hansika Lakprasadini & Noordeen Mohamed Rizvi

12.30-1.30pm LUNCH

1.30 - 3.30pm

Session 05 - Auditorium, TCP

Making places for people

Session Chair : Prof. Samitha Manawadu Session Co-chair : Dr. Nadeeka Jayaweera

- PA_70 Apartment Design for Sense of Wellbeing A Case Study of Apartment Dwellers During the Pandemic in Sri Lanka Seneviratne, T.T.A. & Coorey, S.B.A
- PA_76 Inclusive Schools for Children with Autistic Spectrum Disorder: An Appraisal on Built Environmental Challenges of Existing Schools

 Jayaneththi. D.N.D. & Rajapaksha. I.G.P.
- PA_35 Rehabilitation of Destitute Children and Role of Architecture: A Case Study of Chattogram, Bangladesh Madhury. Murchana
- PA_40 People Working in Shared Spaces; A Study of Co-Working Spaces Concerning Colombo, Sri Lanka Thilakarathne, T.M.S.K & Hettiarachchi, A.A.
- PA_57 Impact of Colours in Classroom Interiors on Mental Health of Undergraduates with Reference to Depression, Anxiety and Stress Levels Insights from a Selected University in Western Province, Sri Lanka Bandara.K.M.S. & Hettiarachchi. A.A.
- PA_62 User Experience in Traditional Domestic Preparation Products in Different Cultures of Sri Lanka Special Reference to String Hopper Press ("Idiappa Wangediya")

Hettiarachchi. A.D, & Ranasinghe. W.M.N.D

3.30- 4.00pm Tea

4.00- 5.00pm FARU Awards and Closing

1.30 - 3.30pm

Session 06- Mini Auditorium, TCP

Green products, buildings and cities

Session Chair : Prof. Kanchana Perera Session Co-chair : Dr. Menaha Thiyaparan

- PA_71 Impact of Nature Connectedness in Reducing
 Depression, Anxiety and Stress of Working Community During Covid 19 Pandemic Insights from it
 Sector in Colombo, Sri Lanka
 Hettiarachchi. A. A. & Wijethunge W.M.D.L.
- PA_89 Street Tree Planting Patterns to Modify the Sky View Factor for Outdoor Thermal Comfort Enhancement Ratnayake. C. W, Perera. N. G. R & Emmanuel R
- PA_90 The Role of Biophilic Design in Hotel Architecture A Case Study Of Heritance Kandalama, Sri Lanka Ariyawansa. D. N & Perera. N. G. R
- PA_69 Patch Isolation Analysis of Peri-Urban Natural Ecosystem; The Case of Bahirawakanda Terrain, Kandy, Sri Lanka.

Sirimewan K.Y.M. & Dharmasena J.H.

- PA_93 Investigation of Application of Green Infrastructure Practices for Storm Water Management in Urban Areas: A Case Study of Diyatha Uyana

 I.D.M.P. Iddamalgoda & Emeshi Warusavitharana
- PA_145 Factors Effecting Energy Consumption of Commercial Buildings in Sri Lanka

Shashika Sathsarani Alahakoon, Amasha Lakna Silva & Udayangani Kulathunga

3.30- 4.00pm Tea

4.00- 5.00pm FARU Awards and Closing

1.30 - 3.30pm

Session 07- Studio 3-4th Floor, TCP

Technology for simulating built form

Session Chair : Prof. P.K.S Mahanama Session Co-chair : Dr. Chathura De Silva

PA_37 Implementing at-Scale Adaptive Thermal Comfort Controls for Mixed Mode Building Using Machine Learning

De. A, Thounaojam. A, Vaidya. P, Sinha. D, Raveendran. M.S, Gopikrishna & Uthej. D

PA_47 Examination of the Spatio-Temporal Urban Growth Patterns Using DMSP- OLS Night-Time Lights Data: An Experiment in Urban Area, Sri Lanka R.D.W.S. Yapa. & W. Gunawardena

PA_49 Luminance Measurements Using Smartphone Cameras

Thounaojam A., Vaidya P., Mundhe P. & Maskarenj M.

PA_51 Adoption of 3D Printing Technology in Sri Lanka's Construction Industry

Cooray. N. K. V. & Coomasaru. P.

PA_87 A Property Valuation Model to Identify Thriving Real Estate Opportunities, Based on Spatial Factors Senadheera. S & Warusavitharana. E

3.30- 4.00pm Tea

4.00- 5.00pm FARU Awards and Closing

1.30 - 3.30pm

Session 08- Studio 4-4th Floor, TCP

Sustainable construction management

Session Chair : Prof. Nayanthara De Silva Session Co-chair : Dr. Pournima Shridarran

PA_60 Effective Methods in Collaborative Procurement System for Energy Sector Projects in Sri Lanka Perera P. N. R., Wijesinghe T. & Perera B. K. C.

PA_74 Forecasting Labour Cost of Construction Trades for Two-Storey Houses: A Single Rate-Based Approach Ramachandra. T, Madushika. U, G, D. & Nirasha. K, C

PA_77 Strategies to Successfully Implement Industry 4.0 Concept for Predictive Maintenance in Facilities Management

T. Sivanuja & Y.G. Sandanayake

PA_43 Suitability of Alternative Dispute Resolution Methods
Based on Risk Factors to the Sri Lankan Construction
Industry

Hapuarachchi.H.N.M & Udayangani.K

PA_85 An Assessment of Skill and Competency Gaps in the Construction Industry: The Case of Mechanical, Electrical, and Plumbing Workers

Prabhashwara. K.M.B.C., Waidyasekara. K.G.A.S. & Jayathilaka.

R.D.W.W.

PA_88 Challenges for Last Planner System Implementation; Sri Lankan Construction Industry Perspective Madushanka T.H. & Ranadewa K.A.T.O.

3.30- 4.00pm Tea

4.00 - 5.00pm FARU Awards and Closing