10th International Research Conference
Research for Transport and Logistics Industry (R4TLI) 2025
2 August 2025
Venue: SLIIT Malabe Campus, Sri Lanka
Duration: 9.30 a.m. - 5.30 p.m.
Jointly Organized with
SLIIT Malabe Campus, Sri Lanka
"The Next Generation of Transport and Logistics for a Smarter World"

Opening Session (G1402/14th Floor, New Academic Building)	
09:30 - 10:00	Registration and Morning Refreshment
10:00 - 10:05	National Anthem
10:05 - 10:10	Lighting of the Oil Lamp
10:10 - 10:15	SLSTL Video/Sponsor Videos and e-Banners
10:15 - 10:25	Welcome: Dr. Chathumi Kavirathna, Vice President - Conference, R4TLI 2025
10:25 - 10:35	Address by Chief Guest: Prof. Ranjith Dissanayake, Professor Emeritus, University of Peradeniya
10:35 - 11:05	Keynote Address: *"Digital Transformation in Transport and Logistics: Key Trends and Challenges"* Keynote Speaker: Dr. Jason CHANG, Professor and Director, Advanced Transport Research Center, University of Taipei
11:05 - 11:20	Programme Outline

Technical Session 01 (Duration: 11:20 - 13:00)

Track No.	A1		B1		C1		D1	
Venue	F1306		F1202		F1307		F1308	
Session Name	Transport Planning		Urban Transport		Maritime and Logistics		Smart Mobility	
11:20 - 11:40	A1.1	14. A MULTIDIMENSIONAL GIS APPROACH FOR IDENTIFYING AREA-SPECIFIC ROAD DEVELOPMENT STRATEGIES	B1.1	4. ECONOMICAL APPROACH OF CONGESTION ALLEVIATION ON A NATIONAL SUBURBAN HIGHWAY AT AN INTERNATIONAL SCHOOL FRONTAGE	C1.1	5. CRITICALLY ANALYSING THE EXISTING SRI LANKAN AIR FORCE CAPABILITIES TO CATER TO FUTURE MARITIME SEARCH AND RESCUE IN SRI LANKA	D1.1	20. AUTOMATIC NUMBER PLATE RECOGNITION SYSTEM FOR SRI LANKAN VEHICLES USING DEEP LEARNING TECHNIQUES
		Kavirathna G.E., Ranabahu S.S.		*Maxwel Francis, Janujan Albet Jenathas, Dileepa Fernando, Tissa U. Liyanage*		*Hirunika Kalani Perera, Nayanalochana PCJ*		*P.G.C.R. Jayaratne, T. Sivakumar, K.P. D.N. Manoli*
11:40 - 12:00	A1.2	36. PREDICTING TRAFFIC DELAYS CAUSED BY LANE-CHANGING BEHAVIOR ON MULTILANE HIGHWAYS	B1.2	6. FACTORS AFFECTING DETRIMENTAL BEHAVIORS OF PRIVATE BUS CREW IN PRIVATE BUS TRANSPORTATION IN SRI LANKA	C1.2	7. EFFECTS OF THE RED SEA CRISIS ON CONTAINER SHIPPING NETWORK AT THE PORT OF COLOMBO	D1.2	23. PREPROCESSING AND STRUCTURING RAW GPS DATA FOR TRAVEL TIME AND DWELL TIME ANALYSIS OF PUBLIC TRANSIT BUSES
		Nithya Ekanayake, Randika Eriyagolla , Hasanka Wijesundara, Vasantha Wickramasinghe		*Herath.H.M.N.A., Abeywickrama K.L. S., Danthanarayana.C.T.*		*Sandani Wickramarathne, Dr. Indika Sigera*		*Ashan Dileka, Ranu Jayakody , Hasanka Wijesundara , Vasantha Wickramasinghe*
12:00 - 12:20	A1.3	13. ASSESSING THE TRAVEL SPEED VARIATION AND DELAY OCCURRING IN THE PUBLIC TRANSIT SYSTEM: A CASE STUDY OF THE VAVUNIYA TO JAFFNA ROUTE	B1.3	10. NAVIGATING URBAN CONGESTION: A STRATEGIC APPROACH TO TRAFFIC AND PEDESTRIAN SAFETY AT KOTTAWA JUNCTION	C1.3	9. ASSESSING CONTAINER PORT CONGESTION IN DIFFERENT REGIONS DURING THE RED SEA CRISIS: A COMPARATIVE STUDY	D1.3	24. GEO – AI ENHANCED TOD ASSESSMNET: A NODE PLACE ANALYSIS OF RAILWAY AND BUS STATIONS IN THE
		Kavinthan Jeyasingam, Vasantha Wickramasinghe		*Hansika Deivendra, Shaja M.M.M.*		*Pasindu Ranaweera, Dr.Indika Sigera*		*Thathyana G.A.A.K., Amila B. Jayasinghe*
12:20 - 12:40	A1.4	48. INTERVENTIONS TO MINIMIZE TRAFFIC ACCIDENTS IN SRI LANKA	B1.4	19. EVALUATING FORMAL AND INFORMAL PUBLIC TRANSPORT INFORMATION SYSTEMS IN SRI LANKA: A SOCIO-TECHNICAL PERSPECTIVE FOR STRATEGIC IMPROVEMENTS	C1.4	47. IMPACT OF LINER SHIPPING CONNECTIVITY ON THE COUNTRY'S ECONOMY: THE CASE OF THE PORT OF COLOMBO	D1.4	35. PASSENGER COUNTING USING THE YOLO ALGORITHM FOR TRANSPORT INFRASTRUCTURE OPTIMIZATION
		Nimthera Sewwandi, Ganga N Samarasekara, Harshi Wasalamudali, C.Y.S. Fernando, T.H.T.N.Premanath, D.P.D.U.Gunathilaka		*Kongalage E.P., Amila B. Jayasinghe*		*Oshani Dimanthika, Baudhi Abeysekara*		*Uvindu Abeywardana, Aakil Ahmed, Gayashan Dalpethado, Dileepa Fernando, Tissa Liyanage*
12:40 - 13:00			B1.5	38. DEMAND-SUPPLY GAP ANALYSIS OF SCHOOL TRANSPORTATION IN SRI LANKA: A SOCIO-ECONOMIC AND SERVICE IMPROVEMENT STUDY			D1.5	42. IMPACT OF RIDE-HAILING APPS ON THE THREE-WHEELER TAXI MARKET IN SRI LANKA
				Vishmi Abeysingha, Amal Kumarage, Navoda Fernando				*Sachinthani Umeshka, Amal Kumarage, Navoda Fernando*
13:00 - 14:00	**Lunch Break (GBlock/10th Floor, New Academic Building)**							

Technical Session 02 (Duration: 14:00 - 15:40)

Track No.	A2		B2		C2		D2	
Venue	F1306		F1202		F1307			
Session Name	Transport Planning		Aviation and Logistics		Maritime and Logistics			
14:00 - 14:20	A2.1	44. EVALUATING PEDESTRIAN BEHAVIORS AND SAFETY RISKS AT UNSIGNALIZED MID-BLOCK CROSSINGS IN COLOMBO	B2.1	11. DEVELOP A BUSINESS STRATEGY FOR MATTALA INTERNATIONAL AIRPORT	C2.1	12. EVALUATING THE IMPACT OF TRANSSHIPPING ON INTERNATIONAL TRADE OF SRI LANKA		
		Thanoja Yokarasa, Dr. T. Sivakumar		*B.V.P. Madhushani, W W A S Fernando*		*Bemindu Jithmal Kiralawella Paththinige, Indika Sigera*		
14:20 - 14:40	A2.2	18. QUANTUM-INSPIRED PEDESTRIAN MOBILITY MODELING: A PROBABILISTIC FRAMEWORK FOR SIMULATING URBAN MOVEMENT UNDER UNCERTAINTY	B2.2	17. IDENTIFY THE POTENTIAL TO DEVELOP BANDARANAIKE INTERNATIONAL AIRPORT AS A LOGISTICS HUB	C2.2	29. PREDICTIVE MODELLING OF HOUSEHOLD E-WASTE RETURN BEHAVIOR: A QUANTITATIVE STUDY OF E-WASTE COLLECTION SYSTEMS IN URBAN SRI LANKA		
		Deshan W.A.K.M., Amila B. Jayasinghe		*Dehemi Dissanayake, Anuja Fernando*		*Hansika Deivendra, Kavindu Jayasuriya*		
14:40 - 15:00	A2.3	21. DO DEVELOPMENTS FOLLOW PARKING REGULATIONS - COMPLIANCE AND DEVIATIONS IN URBAN AREAS?	B2.3	32. DETERMINANTS OF PASSENGER PERCEPTION TOWARDS "SELF-SERVICE CHECK IN" AS A TECHNOLOGICAL IMPROVEMENT FOR AIR TRAVELLING (SPECIAL REFERENCE TO BANDARANAIKE INTERNATIONAL AIRPORT)	C2.3	31. ANALYZING THE FACTORS AFFECTING THE CUSTOMER SATISFACTION OF REVERSE LOGISTICS PRACTICES IN APPAREL E COMMERCE MARKET IN COLOMBO DISTRICT, SRI LANKA		
		Lasitha Wijekumara, Chathura Kovida De Silva		*W.W.A.R.S.S Wickramasinghe*		*Oshada Bandara and Nisansa Mathugamage*		
15:00 - 15:20	A2.4	27. TEMPORAL URBAN MOBILITY PATTERNS IN CROSS CITY COMPARISON USING MOBILE POSITIONING DATA (MPD)	B2.4	49. CONNECTIVITY OF SOUTH ASIAN AIRPORTS: REVELATIONS FROM A COMPARATIVE EXAMINATION OF VIABLE CONNECTIONS AND GLOBAL WEIGHTS	C2.4	37. EVALUATING THE IMPACT OF ORGANIZATIONAL CM ON THE EXTERNAL PROCUREMENT PROCESS PERFORMANCE IN THE APPAREL INDUSTRY		
		Nilan Abeysiriwardhana1, Amila Jayansinghe		*Jasi Pakeerathan, Darshi Piyathilake*		*Fathima Nasfa, Baudhi Abeysekara*		
15:20 - 15:40			B2.5	8. AN ANALYSIS OF THE POSSIBLE TURNAROUND STRATEGIES FOR SRI LANKAN AIRLINES				
				Perera, Shihara; Nayanalochana, Chathula				
15:40 - 16:00	**Tea Break (Lobby/14th Floor, New Academic Building)**							

Closing Session, Panel Discussion and Awards Ceremony (G1402/14th Floor, New Academic Building)	
16:00 - 17:00	Panel Discussion: *"Innovative Transport and Logistics solutions for a Smarter and Sustainable World"* Panelist: Dr. Jason CHANG, Professor and Director, Advanced Transport Research Center, University of Taipei Panelist: Prof. Asoka Perera, Senior Professor, Department of Transport Management & Logistics Engineering, Faculty of Engineering, University of Moratuwa Panelist: Mr. Mohan Gamage, Chief Marketing Officer, PickMe Moderator: Prof. Amal Kumarage, Professor Emeritus, Department of Transport Management & Logistics Engineering, Faculty of Engineering, University of Moratuwa
17:00 - 17:15	Announcement of Awards: Dr. Vasantha Wickramasinghe, Vice President - Events, SLSTL
17:15 - 17:30	Vote of Thanks: Dr. Terrance Rengarasu, Secretary, SLSTL
Sponsors	*Silver Sponsor*: CEYLINE *Award Sponsors*: ADVANTIS, CEYLINE, MendisOne, Mobitel, SCOOBAL, OKI-DOKI, RMA ENERGY, SAGT *Other Sponsors*: Author of Ponce Maritime, APS Logistics, McLARENS CONTAINERS
	Contact Us: Ms. Maryse De Costa, Event Manager, R4TLI 2025 +94775669579