## Journal of Innovation Sciences and Sustainable Technologies

A Make in India Creation

Volume 2. Number 2. April 2022.49 - 106.

## **CONTENTS**

## Special Issue : Current Trends in Computational Modelling and Simulation-Part-2

Guest Editors: Navnit Jha (India) . Anuradha Mahasinghe (Sri Lanka)

## ORIGINAL RESEARCH

Analyzing the Early Stage of COVID-19 Transmission in Sri Lanka via a Multi-patch Compartmental Model Y. Jayathunga . K.K.W.H. Erandi . N.C. Ganegoda . S.S.N. Perera	49
Joint Multilevel Discrete Competing Risk with Continuous Outcome via Bivariate Copula Model Application to a Dengue Epidemiology Study, Sri Lanka G.H.S. Karunarathna . M.R. Sooriyarachchi	57
Age Structured Simulation Model for the Spread of COVID-19 Geeshath Panditharatne . Hasitha Erandi . Naleen Ganegoda . Paduma Eranga	67
The Effect of Control Strategies on the Spread of COVID-19 Based on a Mathematical Model B.A.P.N. Sandaruwini . L.W. Somathilake	75
Developing a Fuzzy Operator Based Model to Capture Transmission Risk of COVID-19 S.T.D.M. Silva . I.T.S. Piyatilake . S.S.N. Perera	91
Smartphone Based Indoor Position Estimation Lasini Wickramasinghe . Maheshi B. Dissanayake	99