

## **CONTENT**

- 1 MESSAGE FROM THE VICE CHANCELLOR
- 2 MESSAGE FROM THE DEAN
- MESSAGE FROM THE CHAIR-GEOWEEK2022
- MESSAGE FROM THE CHAIR-GEOSYM2022
- 5 SESSION OVERVIEW

## **TECHNICAL SESSION: SURVEYING & GEODESY**

9 GEOSPATIAL INVESTIGATION OF TORRENTIAL RAINFALL-INDUCED LANDSLIDES
ON THE WINDWARD SIDE OF WESTERN GHATS- A CASE STUDY OF KOOTICKAL,
KERALA, INDIA

Amrutha A.S, Abin Varghese\*, Sreelakshmi Prakash, Baiju K.R

EXTRACTION OF POWERLINE CORRIDOR BY USING DRONE IMAGES AND ITS POINT CLOUD DATA

BMN Premarathne\*, Manuranga KP, Vandebona R, Prasanna HMI, Lakmal AH

11 ACCURACY ANALYSIS OF SHORT AND LONG BASELINES WITH DIFFERENT COMBINATION OF SATELLITE CONSTELLATIONS

Kuganan. V\*, Prasanna H.M.I.

ASSESSMENT OF HIGH-RESOLUTION GLOBAL GEOPOTENTIAL MODELS TO FILL THE LEVELLING HEIGHT VOID FOR THE SRI LANKAN REGION

Edirisinghe E.A.D.U.\*, Welikanna D.R., Thunendran P., Bandara R.



ACCURACY AND STABILITY ANALYSIS OF GPS AIDED GEO AUGMENTED NAVIGATION (GAGAN) FOR HYDROGRAPHIC APPLICATIONS IN SRI LANKA

R.K.A. Ariyarathna\*, Y.M.R.N. Kumari, R.D.M.I. Rathnayake, P.V.D. Tharanga, T.L Dammalage, M.D.E.K. Gunathilaka

INFLUENCE OF ANTENNA HEIGHT AND SATELLITE GEOMETRY ON PSEUDO RANGE MULTIPATH

Gobinath Vaiguntharasa, Jenan Rajavarathan\*, Dammalage Thilantha

## **TECHNICAL SESSION: LAND MANAGEMENT**

DISCERN CONSTITUENTS INFLUENCING THE INTEROPERABILITY OF SPATIAL DATA IN RELEVANCE TO THE NATIONAL SPATIAL DATA INFRASTRUCTURE (NSDI) OF SRI LANKA

K.A.S.Y. Kasthuriarachchi\*, N.M.P.M. Piyasena, P.A.D.V.Vithanage

FIT-FOR-PURPOSE SOLUTIONS FOR PROBLEMS ASSOCIATED WITH LAND USE PLANNING AND LAND CONSOLIDATION: A CASE STUDY IN WEWATHENNA GN DIVISION, SRI LANKA

Y.G.D.P.K.Thennakoon\*, N.H.Liyanage, P.A.D.V.Vithanage, J.S.R. De Silva, S.L.Witharana, N.M.P.M.Piyasena

IMPACT OF LAND TENURE SECURITY ON REAL ESTATE INVESTMENT IN BANDARAWELA MUNICIPAL COUNCIL AREA FOR THE DEVELOPMENT OF THE TOURISM INDUSTRY

W.D.R.V. Walisinghe\*, J.S.R.De Silva, P.A.D.V.Vithanage, S.L.Witharana, N.M.P.M.Piyasena

A REVIEW: PERFORMANCE EVALUATION OF LOW-COST RECEIVERS UNDER DIFFERENT ENVIRONMENTS FOR CADASTRAL SURVEYS

S.L.Witharana\*, N.M.P.M.Piyasena, P.A.D.V.Vithanage , A.I.U. DeSilva, M.A.T.S.Munasinghe

GENERATING THE HIGH-RESOLUTION ORTHOPHOTOS AND DIGITAL ELEVATION MODEL (DTM) FOR CONSTRUCTION OF SALINITY BARRIER ACROSS NILWALA RIVER

P.A.D.V.Vithanage\*, S.L.Witharana, J.S.R.De Silva, M.A.T.S.Munasinghe, A.I.U.De Silva N.M.P.M.Piyasena



DIGITAL INDIA LAND RECORDS MANAGEMENT INFORMATION SYSTEM USING OPEN SOURCE GIS PRODUCT BHUNAKSHA

Kulathunga Ganesh Khadanga\*, D.S Venkatesh, M.V. Sunish Kumar, Shanmuga Sundari S, Surendranath Karupothu, Saurav Chaudhary, Seemanteeni Sengupta, Inder Pal Singh Sethi, D.C Misra

## **TECHNICAL SESSION: HYDROGRAPHY**

- 25 IMAGERY DERIVED BATHYMETRY: FACILITATING EMERGING POST COVID-19
  DEMANDS IN COASTAL BATHYMETRIC MAPPING
  - Kelvin Tang Kang Wee\*, Huang Lei, Alhaji Hussaini, Tan Chee Wee
- NORTH CELTIC SEA SURVEY: A GREEN REBEL'S HYDROGRAPHIC, GEOPHYSICAL AND GEOLOGICAL CHARACTERISATION PROJECT Godinho, J.\*
- RESERVOIR SEDIMENTATION ASSESSMENT USING SUB-BOTTOM PROFILER AT SAMANALAWEWA RESERVOIR

P.V.D. Tharanga\*, S.R.C. Ranaweera, Y.M.R.N. Kumari, R.K.A.Ariyarathna, W.A.A.P. Wijesundara, R.D.M.I. Rathnayake, M.D.E.K. Gunathilaka

- APPLICATION OF USV TO OBTAIN HIGH-QUALITY BATHYMETRY:CASE STUDY OF COASTLINE SURVEY OF THE TRIANGLE ISLAND SITUATEDSOUTH OF CHINA Zhihong Xie\*, Ran Zhang
- CORAL REEFS AND BLUE ECONOMY
  M F M Fairoz\*
- BENEFITS OF THE CROWDSOURCED BATHYMETRY (CSB) IN THE HYDROSPATIAL DOMAIN AND THE EMERGING SUSTAINABLE BLUE ECONOMY

  Rathnayake MCK\*, Muththettupita Gamaethi, RDVP Jayarathna



	TECHNICAL SESSION: INTEGRATED SPATIAL SCIENCE APPLICATIONS
33	ASSESSMENT OF ECOLOGICAL DISTURBANCE ON INDIAN SUNDARBANS WITH SPECIAL REFERENCE TO AMPHAN CYCLONE BY USING GEOSPATIAL TECHNOLOGY Sreelakshmi Prakash, Abin Varghese*, Amrutha A.S., Baiju K.R
34	URBAN LAND USE CHANGE DETECTION IN SRI JAYEWARDENEPURA KOTTE MUNICIPAL COUNCIL, SRI LANKA Kaushalya G.N.*, Wijeratne V.P.I.S.
35	A FEASIBILITY ANALYSIS OF MOBILE PHONE CAMERA IMAGES FOR 3D INFORMATION  .Jeyanthan*, H.A. Nalani
36	WATERSHED MANAGEMENT PRIORITIZATION IN PADDY LAND USES: A CASE STUDY IN HUNGAMALA ELA SUB-WATERSHED IN MAHAWELI BASIN Withanage N.S.*, Abeysekara J.M., Priyanke N., Jayaweera S.D.
37	<b>DEVELOPMENT OF A SYMBOL CATALOGUE APPLICATION TOOL FOR EFFICIENT COMPILATION OF PAPER CHARTS INTO ELECTRONIC NAVIGATIONAL CHARTS</b> Fernando P.B.A.*, Lewis S.N., Perera A.N.D., Gunathilaka M.D.E.K.
	TECHNICAL SESSION: REMOTE SENSING & GIS
41	DERIVE HYDROLOGICAL INFERENCES THROUGH GIS-BASED DRAINAGE MORPHOMETRIC ANALYSIS IN KEHELGAMU OYA DRAINAGE BASIN OF SRI LANKA MGBK Jayarathna, RMGN Rajapaksha*, UDD Adhikari
42	MONITORING THE SEASONAL WATER QUALITY VARIATIONS BASED ON REMOTE SENSING IN URBAN LAKES, SRI LANKA H.B.T.P. Jayathilaka*, V.P.I.S. Wijeratne
43	DETERMINATION OF POTENTIAL RUNOFF COEFFICIENT USING GIS; CASE STUDY: KALUTARA DISTRICT Dilanganee W.P.S*, Illeperuma I.A.K.S
44	ANALYSIS OF CHANGES IN COASTAL VEGETATION COVER IN GAMPAHA DISTRICT, SRI LANKA USING REMOTE SENSING AND GIS TECHNOLOGY A.G.C. Lakshani*, K.P.G.K.P. Guruge, E.P.D.N. Thilakarathne



MODELLING URBAN HEAT ISLAND WITH LANDSAT IMAGES AND LIDAR DATA SET

Esra Şengün\*, Hossein Arefi, Samet Aksoy, Peyman Taheri

DEEP LEARNING BASED ARCHAEOLOGICAL OBJECT DETECTION FROM DRONE IMAGERY

Jayaratne I.T.P.\*, Koswatte S.

TOP 100 MOST CITED PAPERS OF THE JOURNAL "REMOTE SENSING OF ENVIRONMENT": A SCIENTOMETRIC ANALYSIS

Renjith V R\*, Sudhi S Vijayan, Pradeepkumar A P