

**Dr. D. K. D. A. Ranaweera**



My research interest span covers the application of GIS and remote sensing, urban and settlement Geography. My research focuses on the development of complex, flexible spatial methods that can be applied to big datasets in a computationally feasible way and identifying the distribution pattern of spatial phenomena. I work with institutions such as the Department of Coast Conservation & Coastal Resource Management and Urban Development Authority to support various research activities.

**Designation**

Lecturer(Probationary), Department of Geography, Faculty of Humanities and Social sciences, University of Sri Jayewardenepura, Nugegoda, Sri Lanka.

**Academic Qualifications**

- **Ph.D.** (SJP) in Urban Geography (2022)
- **M.Sc.** (USJ) in Geographic Information Systems & Remote Sensing, (2016)
- **BA. Hons** (SJP) in Geography (2013)

**Teaching Interests**

Urban Geography, Settlement Geography, Fundamentals of Geographic Information System, Introduction to Remote Sensing, Application of GIS, Application of GIS and RS, GIS for Planning, Modeling GIS, Urban planning for Development.

## **Publications**

### **Articles:**

- An Inquiry into government Land Reforms in Sri Lanka after Independence. “A journey towards independence and nationhood” (Political, economic, religious, cultural and social transformation of Sri Lanka from 1948-1977), A publication of the Professor F. R. Jayasuriya Gunanusmarana Foundation.
- K.U.J.Sandamali, K.A.M.Chathuranga, **D.K.D.A.Ranaweera**, B.A.S.C.Kumara, 2021, Spatial Analysis of the Drought by using satellite Remote Sensing and GIS-A Case study at Monaragala district Sri Lanka. The 42<sup>nd</sup> Asian Conference on Remote Sensing (ACRS2021) 22-24<sup>th</sup> November, 2021 in Can Tho University, Can Tho city, Vietnam.
- K.U.J.Sandamali, K.A.M.Chathuranga, **D.K.D.A.Ranaweera**, B.A.S.C.Kumara, 2021, Multicriteria Drought Severity Analysis in Monaragala District Sri Lanka by Utilizing Remote Sensing and GIS, Climate Impacts on Sustainable Natural Resource Management (pp.157-182) DOI:[10.1002/9781119793403.ch9](https://doi.org/10.1002/9781119793403.ch9)
- Going Beyond the Traditional Method of Teaching: a Model for the Future, (SSRN) Social Science Research Network, March 2021, (Online). 2021.
- The Progress of Resettlers in Upper Chatment Areas of Mahaweli Development Project in Sri Lanka, (IJIRD) International Journal for Innovative Research in Science & Technology, Vol. 9, Issue 3, March 2020, ISSN: 2278 – 0211 (Online). 2020.
- The Spatial distribution of Synonyms which are used for nominating Geographical place in Sri Lanka, “Vidudaya” Academic Volume, University of Sri Jayewardenepura, Nugegoda, 2019.
- Technological Development and Environmental Determinism, (2018) Essay in Honour of most Ven. Ahungalle Wimaladhamma Thissa Anunayaka Thero, Matara.
- Urban Land use Changes in Sri Lanka with Special Reference to Kaduwela Town from 1975 to 2016 (IJIRD) International Journal for Innovative Research in Science & Technology, Vol. 6, Issue 6, June 2017, ISSN: 2278-0211 (Online).
- Use of New Mapping Technogym for Cartography, “Mahee” Journal, Voel. 6, Issue1, July 2016.

- “Global Possessing System” , “Mahee” Journal, Voel. 3, Issue1, January 2015.

### **Book Chapters**

- **D.K.D.A. Ranaweera**, R.M.K. Ratnayake and H.M.R. Premasiri 2022, Demarcation and Spatial Distribution of Urban Centres in Sri Lanka. Book Title: Advances in Urbanism, Smart Cities, and Sustainability. Published by Taylor & Francis Group /CRC Press.
- S.A. Sudusinghe, R.M.K. Ratnayake and **D.K.D.A. Ranaweera**, 2022, Geospatial Analysis of Solid Waste Management in Badulla Municipality - Uva Province, Sri Lanka. Book Title: Advances in Urbanism, Smart Cities, and Sustainability Published by Taylor & Francis Group/CRC Press.
- The Role of Service Centres for Development of The Periphery: The Case Study in Hatangala Rural, Environmental Management & Sustainable Development Series 1, Universiti Tun Hussein Onn Malaysia , 86400 Parit Raja, Batu Pahat, Johor ,© Penerbit UTHM, First Published 2019, ISBN 978-967-2216-76-6 :pp 67-80.

### **Research Abstracts published in Conferences:**

- The Spatial distribution of Synonyms which are used for nominating Geographical place in Sri Lanka, International conference on Oriental Languages (ICOL), University of Sri Jayewardenepura, Nugegoda, 2019.
- Spatial distribution of voter behavior in Sri Lanka; Based on past presidential and General Election results, Annual Research symposium 2019, Election Commission of Sri Lanka, ISBN-978-955-7278-04-9:pp 1.
- A Successfulness of New Settlements in Dry Zone, National Research Symposium on Historical Studies, Department of Humanities, Faculty of Social Sciences and Humanities, Rajarata University, Sri Lanka, 2018.
- A role of Service Centers for Development of Rural Periphery: with special Reference to Hatangala Village, International Research Conference on Humanities and Social Sciences, Faculty of Humanities and Social Sciences, University of Sri Jayewardenepura, 2012.

### **ResearchGate Profile**

<https://www.researchgate.net/profile/Dilhani-Ranaweera>

### **Google Scholar Profile**

<https://scholar.google.com/citations?user=8kCBTBcAAAAJ&hl=en>

### **Field Research Experiences**

- **supervisor in Identification and Mapping of Beach Access, Routes, Paths, and Corridors in Trincomalee, Batticaloa, Ampara and Colombo Districts,** Sponsored by Department of Coast and Coastal Resource Management Department, Colombo, 2021.
- **supervisor in Mapping in Beach Access in Gampaha and Puttalam District,** Sponsored by Department of Coast and Coastal Resource Management Department, Colombo, 2019/20

### **Contact Number**

Office 0112802028

### **Email**

[dilhani@sjp.ac.lk](mailto:dilhani@sjp.ac.lk)