

**Short Bio:**

Senior Lecturer (on contract)

PhD (Osaka, Japan), M. Urban Informatics (Osaka, Japan), B.Sc. (Hons) Town & Country Planning (UoM, Sri Lanka).

Fields of Interest: Geoinformatics, Landuse change modelling and simulation, Remote Sensing and GIS applications in urban environment.

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**Blogs: N/A**

**Classes Manage:**

GEST 3202.3 - Open Geospatial Web-based Applications

GEST 3203.3 - Network Analysis

GEST 4103.3 - Spatial Technologies for Natural Resources Management

GEST 3102.3 - Applications of GPS

GEST 3106.3 - Web GIS

GEST 3104.3 - Map Design and Interpretation

GST 2133 - Fundamentals of GPS

GEO 2113 - Cartography

GEOG 4103 - Urban and Rural Geography

**Presentations: N/A**

**Publications**

## Journal Articles

- Jayasinghe,P., Kantakumar, N. L., Raghavan,V. & Yonezawa, G. (2021) Comparative Evaluation of Open Source Urban Simulation Models Applied to Colombo City and Environs in Sri Lanka. International Journal of Geoinformatics, Vol.17, No.3. (ISSN 2673-0014)
- Jayasinghe, P., Raghavan, V. & Yonezawa, G. (2021) Exploration of expansion patterns and prediction of urban growth for Colombo City, Sri Lanka. Spatial Information Research.
- Mahanama P.K.S., Jayasinghe A. B., Jayasinghe K.D.P.P., Bandara R. M. P. N. S. & Abenayake C. (2014) Assess the level of vulnerability in Sri Lankan coastal areas to climate exaggerated disasters: Application of Analytical Hierarchical Process (AHP) and

Geographic Information System (GIS). International Journal of Advanced Research, Vol.2, No.8. (ISSN 2320-5407)

- Mahanama P .K.S., Abenayake C. & Jayasinghe K.D.P .P . (2014) Challenge of Local Responses to Climate Change; Perceptions of Urban Planning Practitioners in Sri Lanka. Asian Journal of Humanities and Social Studies, Vol.2, No.4. (ISSN: 2321 – 2799)
- Bandara R.M.P .N.S., Jayasinghe A.B. & Jayasinghe K.D.P .P . (2014) Space Syntax and Mobile GIS Application: Investigation of Relationship between Human Walking Pattern and Spatial Configuration. International Journal of Emerging Technology & Research, Vol.1, No.6. (ISSN (E): 2347-5900, ISSN (P): 2347-6079)
- Jayasinghe K.D.P .P ., Bandara R.M.P .N.S, Jayasinghe A.B. & Chemin Y., (2015) Assess the level of vulnerability to climate exaggerated disasters in Sri Lankan Coastal Areas: An Application of Open-Source Geographic Information System. International Journal of Geoinformatics, Vol.11, No.3. (ISSN 1686-6576)

## Conference Presentations

### *Oral Presentations*

- Jayasinghe, P., Raghavan, V. & Yonezawa, G. (2020) Comparative Evaluation of Urban Growth Models. Geoinforum-2020 (online), Japan.
- Jayasinghe, P., Raghavan, V., Sanjaya, N. & Yonezawa, G. (2019) Spatiotemporal growth pattern analysis and urban simulation in Colombo city using open source software tools - Application of FUTURES simulation model. Proceeding of the 40th Asian Conference on Remote Sensing (ACRS) 2019, Daejeon, Korea.
- Jayasinghe, P., Raghavan, V. & Yonezawa, G. (2018) Investigation of Land Cover Change for Simulating Future Urbanization in Colombo City, Sri Lanka. Geoinforum-2018, Nara, Japan.
- Jayasinghe K.D.P.P., Bandara R.M.P.N.S, Raghavan V. & Yonezawa G. (2016) Identifying the relationship between land cover change and land surface temperature increase in Colombo City, Sri Lanka – A remote sensing and GIS approach. International Conference on Geoinformatics for Spatial- Infrastructure Development in Earth & Allied Sciences (GIS- IDEAS 2016), Hanoi University of Mining & Geology, Hanoi, Vietnam. (Award for the best oral presentation)
- Jayasinghe K.D.P.P., Raghavan V. & Yonezawa G. (2017) Identifying relationship between land surface temperature and changes of vegetation cover and built-up areas in Colombo, Sri Lanka. FOSS4G – ASIA 2017, International Institute of Information Technology, Hyderabad, India.

### *Poster Presentations*

- Jayasinghe, P., Raghavan, V. & Yonezawa, G. (2017) Identifying relationship between land surface temperature and changes of vegetation cover and built- up areas in Colombo, Sri Lanka. International Symposium on Remote Sensing (ISRS), Nagoya, Japan.

- Jayasinghe K.D.P.P., Bandara R.M.P.N.S, Jayasinghe A.B. & Chemin, Y. (2014) Assess the level of vulnerability to climate exaggerated disasters in Sri Lankan coastal areas: An Application of Open-Source Geographic Information System. FOSS4G – Asia 2014, Asian Institute of Technology, Bangkok, Thailand (Award for the best poster presentation)