

## Spatial And Spatio Temporal Epidemiology

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164 R.C.S.N.P. Souza, R.M. Assunção and D.M. Oliveira et al. / Spatial and Spatio-temporal Epidemiology 29 (2019) 163:175 to detect geographic clusters of dengue infection. Dengue is an infectious disease that is currently a major concern for public health orncials, particularly in developing coun-

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Spatial and Spatio-temporal Epidemiology is a quarterly peer-reviewed medical journal covering spatial and spatiotemporal aspects of epidemiology. It was established in 2009 and is published by Elsevier. The editor-in-chief is Andrew Lawson (Medical University of South Carolina).

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Omitting superscript, 0 is the model constant term, S str is the structured spatial random effect, S unstr is the unstructured random effect, T is the temporal term and ST accounts for the spatio-temporal random effect. The structured component assumes a spatial correlation among the countries such that neighbouring countries are assumed to have more influence on one another than those far apart while the unstructured component assumes the countries are independent of one another.

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Simangalisu Chitunhu, Eustasius Musenge, Spatial and socio-economic effects on malaria morbidity in children under 5years in Malawi in 2012. Spatial and Spatio-temporal Epidemiology, 10.1016/j.sste.2015.11.001, 16, (21-33), (2016).

[Spatio-temporal models for mapping the incidence of ...](#)

Spatio-temporal distribution abstract This study aimed to determine whether variations in the incidence of reported cases of human brucellosis in Ecuador were clustered in space and time. In addition, the effects of cattle and small ruminant population density and other socio-economic factors on the incidence were investigated.

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Influenza-like illness The United States Centers for Disease Control and Pre- vention (CDC) reports spatio-temporal inluenza data, on a weekly basis, in the percentage of total physician visits that are due to inluenza-like illness (ILI).

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He is also an advisor in disease mapping and risk assessment for the World Health Organization, the founding editor of the journal Spatial and Spatio-Temporal Epidemiology, and the author of eight books, including the highly regarded Chapman & Hall/CRC book Bayesian Disease Mapping: Hierarchical Modeling in Spatial Epidemiology, Second Edition. He has published more than 150 journal articles on spatial epidemiology, spatial statistics, and related areas.

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in research examining the spatial and temporal distribu-tion of diseases in veterinary epidemiology. A study by Ward et al. (1996) found clustering of bluetongue virus serotypes among cattle herds in Queensland, Australia using the Cuzick and Edward's test. Research using retro-spective space/time clustering techniques in the investiga-

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Spatial data can analyze on many levels, zip codes, census tract, state, geocode, etc. Temporal data is often analyzed as multiple data points per observation over time and can be measured by just as many ways as the spatial data, if not more. One can also look at events by year, month, minute, second, but this must also be linked to spatial data.

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Each spatio-temporal density estimate requires a separate smoothing bandwidth for the spatial and the temporal margins of the data. As in the purely spatial setting, it is recommended to choose the same values of these bandwidths between the case and control es- timates.