Spatial Case-control Data: A Poisson Modelling Approach

Renjun MA, *University of New Brunswick, Fredericton, Canada*, E-mail: renjun@unb.ca

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Abstract: We consider a Poisson modelling approach to binomial models with various spatially correlated random effects. With the truly best linear unbiased predictor of random effects, we obtain an optimal estimating function for regression parameter in the sense of Godambe. While allowing full parametric inference, our principal results depend only on the first and second moment assumptions of unobserved random effects. Application of these models to real data will be discussed.

References

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