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Modeling Indigenous Inter-regional migration flows in Australia

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Abstract

This paper attempts to investigate the effects of spatial structure and origin and destination attributes on patterns of internal migration flows among Australia's Indigenous population. A large data set containing Indigenous migration flows between statistical divisions and sub-divisions in Australia in 2000-2001 is used. The data are analyzed using both standard and modified count data models including *zero-inflated*, *hurdle* and *constrained* variants of Poisson and negative binomial regression analyses. The results of these models are compared with respect to goodness of fit and the interpretability of parameter estimates. As these models have never been applied before to Indigenous data, they are expected to provide new insights on factors affecting the *incidence* and *volume* of Indigenous inter-regional migration flows.

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