

# On the Improvement of Net Migration Model for Regional Population Projections

Shiro KOIKE

This paper aims to study the method of implementing assumptions relating migration, especially considering regional population projections. As for migration assumptions, it has been widely accepted to apply uni-regional model using net migration rate because of the statistical problems. Also, it is natural to remain the net migration rate constant through projection horizon. Holding the net migration rate constant, however, may lead to the wrong projection of the recent migration trends to the future since net migration rate does not denote the probability. As a result of examining improvement of the uni-regional model among the limitation of available migration data, I presented the methods of calculating alternative net migration rate by changing the denominator population according to the sign of recently observed net migration number. Further, I inspected the validity of the new model by testing this model to the projection based on the population of National Census 1990 and comparing the calculated results with those of official projections and actual data.