

**PENERAPAN MODEL *GEOGRAPHICALLY WEIGHTED POISSON REGRESSION SEMIPARAMETRIC* (GWPRS) TERHADAP KASUS ANGKA KEMATIAN IBU DI JAWA BARAT**

**ABSTRAK**

*Geographically weighted poisson regression semiparametric* (GWPRS) merupakan metode spasial yang dikembangkan dari model *Geographically weighted poisson regression* (GWPR) yang mengkombinasikan parameter-parameter bersifat lokal dengan parameter-parameter bersifat global terhadap lokasi. Kematian Ibu merupakan salah satu indikator yang peka terhadap kualitas dan aksesibilitas fasilitas pelayanan kesehatan. Tujuan penelitian ini adalah mendapatkan model GWPRS dengan pembobot fungsi kernel terbaik pada data Jumlah Kematian Ibu di Jawa Barat tahun 2013. Pada penelitian ini model GWPRS dengan pembobot fungsi kernel *Adaptive Bisquare* merupakan model terbaik untuk menggambarkan data Jumlah Kematian Ibu di Jawa Barat tahun 2013 karena menghasilkan nilai AICc terkecil dibandingkan dengan pembobot fungsi kernel lainnya.

**Kata Kunci:** Kematian Ibu, GWPRS, *Fixed Gaussian*, *Fixed Bisquare*, *Adaptive Gaussian*, *Adaptive Bisquare*

# **IMPLEMENTATION OF GEOGRAPHICALLY WEIGHTED POISSON REGRESSION SEMIPARAMETRIC (GWPRS) MODEL ON MATERNAL MORTALITY RATE CASE IN WEST JAVA**

## **ABSTRACT**

Geographically Weighted Poisson Regression Semiparametric (GWPRS) is a spatial method developed from the Geographically weighted poisson regression model (GWPR) that can be combined between the global parameters and local parameters to the location. Maternal mortality is one of the indicators which is sensitive to the quality and the accessibility of health care facility. The purpose of this research is to get the GWPRS model with the best kernel weighted function on the Number of Maternal Deaths data in West Java in 2013. GWPRS model with weighted kernel of Adaptive Bisquare function is the best model to elaborate data about the Maternal mortality in west java 2013 as it produces the smallest AICc value which is compared with other weighted kernel functions.

**Key Word** : Maternal mortality, GWPRS, Fixed Gaussian, Fixed Bisquare, Adaptive Gaussian, Adaptive Bisquare