University of Huddersfield Repository

Hirschfield, Alex, Birkin, M., Brunsdon, C., Malleson, N. and Newton, Andrew D.

How places influence crime: The impact of surrounding areas on neighbourhood burglary rates in a British City

Original Citation


This version is available at http://eprints.hud.ac.uk/16839/

The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: E.mailbox@hud.ac.uk.

http://eprints.hud.ac.uk/
Table 2: AIC Scores of candidate models

<table>
<thead>
<tr>
<th>Model Description</th>
<th>AIC</th>
<th>ΔAIC</th>
<th>RL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 5: Spatial Error and Predictor Lag</td>
<td>23756.1</td>
<td>0.0</td>
<td>1.00</td>
</tr>
<tr>
<td>Model 2: Spatial Autoregressive Lag</td>
<td>23762.7</td>
<td>6.6</td>
<td>0.04</td>
</tr>
<tr>
<td>Model 3: Spatial Predictor Lag</td>
<td>23821.1</td>
<td>65.0</td>
<td>0.00</td>
</tr>
<tr>
<td>Model 4: Spatial Error Lag</td>
<td>24475.2</td>
<td>719.1</td>
<td>0.00</td>
</tr>
<tr>
<td>Model 1: Basic ANOVA Model</td>
<td>24814.8</td>
<td>1058.7</td>
<td>0.00</td>
</tr>
</tbody>
</table>

\[
AIC = 2k - 2\log(L) \quad \text{Relative likelihood (RL)} = \exp(-\Delta AIC/2)
\]

k = number of parameters and L = maximised likelihood of the model