

Conditional Maps of Continuous Variables

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Abstract

Chloropleth maps offer a simple approach to the display of cross-correlation of two variables. Variable levels are cross-tabulated in a 2×2 or 2×3 matrix, and a color or cross-hatched plotted in regions of the map. We believe a continuous shading or coloration coupled with continuous conditioning offer advantages to understanding the spatial distribution of not only individual variables, but also their cross-correlation. We describe the algorithm, which is based upon multivariate kernel regression, and its implementation in ArcView. Examples from NCI databases will be displayed.