

## **Development and Evaluation of a Map Annotation System Using a Digital Pen - An Example of a Distributional Survey of a Local Shopping Area**

Masatoshi ISHIKAWA  
*Tokyo Seitoku University*  
*Japan*  
*ishikawa@tsu.ac.jp*

### ***Abstract***

Paper is used widely for recording data in fieldworks. To manage and analyze the data recorded on sheets of paper by using computers, field workers first have to digitize them by manual operation. We believe that the operation is not always an easy task. Therefore, we propose a map annotation system, GeoMemo, that uses a digital pen and special paper maps including dot patterns for recording handwritten strokes to digitize annotations on the paper maps efficiently. In this paper, we report an implementation of our proposed system, and also mention the effect of the system on fieldworks

***Keywords:*** *GIS, fieldworks, digital pen*