

## **Short-Term Model Improvement: Switching to Life Style Models of Trip Generation**

Kenneth D. Kaltenbach and Sunil Saha, The Corradino Group; Shi-Chiang Li, Florida Department of Transportation; and Sridhar Ramasami, Carr Smith Corradino

### **Abstract**

The Florida Department of Transportation (FDOT) uses a cross-classification trip production model within the Florida Standard Urban Transportation Modeling Structure (FSUTMS). Recent research has indicated that several changes in the model are needed to do a better job of estimating trip generation. This study developed and implemented a life-style trip generation model. The revised model expands the existing trip purposes to include home-based school and truck trips. Recent travel surveys and census data were used in all statistical analyses. The revised models use estimation from multiple classification analysis, ANOVA and multiple regression. The results of these statistical models show a better trip production model. The revised models also implement polynomial regression based stratification models and a “fratarling” technique to make optimal use of census data in estimates of the future zonal characteristics needed by the “life-style” model.