

# **An Integrated Spatial Data Model for Multistory Cadastral Systems**

**Amr Hosseiny ABD-ELRAHMAN, Egypt**

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## **SUMMARY**

Typical cadastral data modeling does not support spatial modeling of multistory residential area. This type of modeling is increasingly needed to accurately depict spatial features and their embedded relationships in different cadastral applications ranging from real state to building regulation implementation. A data model to depict multistory spatial data is introduced in this research. In this model, topological rules in object relational database system were utilized and enforced. Special interest was devoted to minimize redundancy in spatial data features representation. Customized code was implemented to facilitate data querying and displaying based on developed model. The model was implemented and successfully tested on part of a sub-division in one the new communities surrounding Cairo, Egypt.