

**NEW TYPE OF FUZZY RELATIONAL
EQUATIONS AND NEUTROSOPHIC
RELATIONAL EQUATIONS – TO ANALYSE
CUSTOMERS PREFERENCE TO STREET SHOPS**

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In this paper authors study the customer's preference of street shops to other eateries using Fuzzy Relation Equations (FREs) and Neutrosophic Relation Equations (NREs). We have constructed a new type of FRE and NRE called the new average FRE and new average NRE. This study is based on interviews /discussions taken from 32 tuck shops in and around Tambaram. This paper is organized into five sections. In section one we just recall the working of FRE and NRE. We define the new notion of average FREs and average NREs and use this new model to study the problem which forms section two of this paper. Section three describes the attributes related with the customers and the types of customers based on the pilot survey made by us. The new FRE and NRE models constructed in section two of this paper is used in analysing the problem in section four. The final section gives the conclusions and suggestions made from this study.

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