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#### STATISTICAL ANALYSIS OF VEHICLE DRIVER BEHAVIORS

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#### ABSTRACT:

Purpose of this study is to examine the drivers' attitudes and behaviors in traffic via statistical techniques. With this purpose, the reactions of the motor vehicle drivers in traffic, and how they describe themselves and how they feel while they are driving is examined.

To measure the driver's attitudes and behaviors in traffic, a Likert scale type questionnaire, which had been used in Çınar's (2007) study, ranging from 1 'strongly disagree' to 5 'strongly agree' is applied on a face-to-face basis. Drivers attitudes and behaviors and the behavior types whether they do or they exposure, on their feelings and determinations of themselves as a driver is examined via CHAID and Multiple Correspondence Analysis. SPSS Software is used to perform the statistical analysis.

Some of the important results of the analysis are that the drivers who feel themselves as aggressive while driving are those who describe themselves as congenital, describe their car as a good friend and as an education level they have a graduate degree and the common behavior they exposure and do is swearing while they are driving.

Keywords: Vehicle Drivers, Driver Behaviors, Statistical Analysis, CHAID Analysis, Multiple Correspondence Analysis.

#### INTRODUCTION

It can be seen that like in all areas of life aggressive behaviors is increasing rapidly and becoming ordinary reaction (Johnson, 1997; Joint, 1995; Mizell, 1997; Sharkin, 2004; Willis, 1998). Some people perceives much functional to solve some of their daily problems that they met via aggressive behaviors instead of rationalist ways. Therefore, some drivers show an aggressive tendency as a reaction towards the frustrations in the traffic. Some of the studies show that these kinds of aggressive behaviors of the drivers causes traffic accidents, injuries and deaths (Deffenbacher et al, 2003; Galovski and Blanchard, 2004; Hemenway and Solnick 1993; Houston, Harris and Norman, 2003; Çınar, 2007).

There are many causes of accidents. This includes dangerous driving, technical faults, weather, road signage and design of the roads. However, the improvements in term of automobile technology in term of safety have achieved certain level. Road signage and road designs have also being improved, where various black spots have been identified and studies have been carried out to mitigate the causes of the road accidents. However, it was found that the accident rates still keep increasing year by year. Most studies have proven that drivers are responsible for the main cause of accident. Most drivers tend to have the attitude of overestimating their own

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ability and the capability of their vehicles to react within the sufficient time to avoid crashes (Jusoh, 2013).

#### 2. MATERIAL AND METHOD

The participants of this study are composed of 500 drivers at Afyonkarahisar Providence between the dates 01 April - 30 June 2016. To measure the driver's attitudes and behaviors in traffic, a Likert scale type questionnaire, which had been used in Çınar's (2007) study, ranging from 1 'strongly disagree' to 5 'strongly agree' is applied on a face-to-face basis. The questionnaire was composed of 57 questions. Seven of them were related with demographic characteristics and 50 of them were related with their behaviors that they do or exposed to. Because of some unfilled and wrong filled questionnaires, the statistical analyses are applied over 440 questionnaires. SPSS Software is used to perform the statistical analysis.

As a statistical analysis of the data set, first of all a well known Multiple Correspondence Analysis, which shows the relations among the levels of the categorical variables is applied. Then to put forward the effective factors on the dependent variable, CHAID (Chi Squared Automatic Interaction Detection) analysis is used.



Multiple Correspondence Analysis (MCA) is a method, used to describe, explore, summarize and visualize information contained within a data table of N individuals described by Q categorical variables. This method is often used to analyze questionnaire data. It can be seen as an analogue of principal components analysis (PCA) for categorical variables (rather than quantitative variables) or even as an extension of correspondence analysis (CA) to the case of more than two categorical variables. (Blasius and Greenacre, 2014).

Compared to other analysis techniques CHAID analysis has an advantage (better, superior) in terms of presenting both categorical and ongoing (continuous) variables in this study. CHAID proceeds in steps. First the best partition is found. Then the predictors are compared and the best one chosen. The data are subdivided according to this chosen predictor. Each of these subgroups are re-analyzed independently, to produce further subdivisions for analysis. The type of each predictor determines the permissible groupings of its categories, so as to build the contingency table with the highest significance level according to the chi-squared test (Kass, 1980). Because the goal of classification trees is to predict or explain responses on a categorical dependent variable, the technique has much in common with the techniques used in the more traditional methods of Discriminant Analysis, Cluster Analysis, Nonparametric Statistics, and Nonlinear Estimation. The flexibility of classification trees makes them a very attractive analysis option, but this is not to say that their use is recommended to the exclusion of more traditional methods. Indeed, when the typically more stringent theoretical and distributional assumptions of more traditional methods are met, the traditional methods may be preferable. However, as an exploratory technique, or as a technique of last resort when traditional methods fail, classification trees are, in the opinion of many researchers, unsurpassed (Hoare, 2004).

#### 3. FINDINGS

Frequencies for the demographic features of the drivers are given in Table1. As it can be seen from Table 1., while 40,9% of the drivers are between 18-25 ages, as education level 65% of them have graduate degree.

While driving 2,3% describe themselves as insecure driver, 8,4% describe as beginner, 54,5% describe as Self sufficient driver, 23,9% describe as professional and 8% describe themselves as Congenital driver.

Variable	Level	Number	Percent
	18-25	180	40,9%
	26-32	118	26,8%
Age	33-39	70	15,9%
_	40~47	41	9,3%
	47+	31	7,0%
	Primary	20	4,5%
Education	Secondary	•	4,3%
Level	High	115	26,1%
_	Graduate	286	65%
	Insecure	10	2,3%
	Beginner	37	8,4%
Describing	Self Sufficient	240	54,5%
Himselves	Professional	105	23,9%
	Congenital Driver	35	8%
	Other	13	3%
	Impatient	30	6,8%
	Habitant	168	38,2%
Feeling	Strong	29	6,6%
Himselves	Aggressive	12	2,7%%
	Stressful	52	11,8%
	Self Sufficient	136	30,9%
	Integrated with the vehicle	13	3%
	Functional	108	24,5%
	Good Friend	54	12,3%
Describing -	Safe	102	23,2%
Vehicle	Confidence Builder	38	8,6%
veniere	Problematical	8	1,8%
	One of my Part	123	28%
	Other	7	1,6%
	Never	5	1,1%
Belief to	Very Infrequently	6	1,4%
Vehicle	Sometimes	72	16,4%
veniere	Very Frequently	156	35,5%
	Always	201	45,7%
	Hate	4	0,9%
Taria	Don't Love	15	3,4%
Loving	I don't know	52	11,8%
Vehicle	Love	113	25,7%
Γ	Dote	256	52,8%

Table	1. Descr	intive	statistics	and	frea	uencies	of	the drivers.	
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On the other hand, while driving, 6,8% of these drivers feel themselves as impatient, 38,2% Feel Habitant, 6,6% feel strong, 2,7% feel aggressive, 11,8% feel Stressful, 30,9% feel self sufficient and 3% feel themselves as Integrated with their vehicle.

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According to describing their vehicle, most of them love their car as %28 of them describe their vehicle as one their part, %24,5 describes as functional, and %23,2 describes their car as Safe. As it can be seen from Table 1., most of these drivers believe in their vehicles (45,7% of them reply this question as always and 35,5% as very frequently) and similar to describing their vehicles, most of them love their cars (number of lovers and dotes is 369 over 417).

The results of Multiple Correspondence Analysis for these drivers about how they describe themselves, how they feel while driving, how they describe their vehicles and the education levels of them is given in Figure 1.

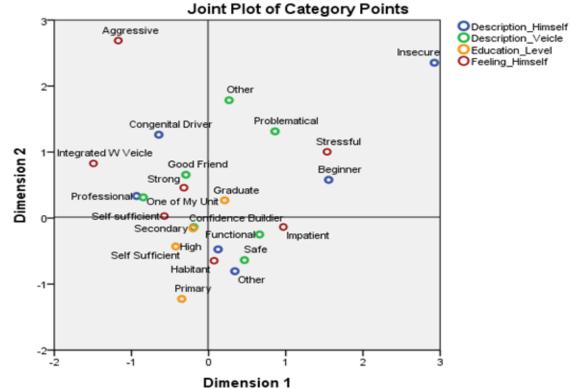


Figure 1. Results of Multiple Correspondence Analysis Joint Plot of Category Points

As it can be seen from Figure 1. drivers who describe themselves as insecure an beginner are generally describe their cars as problematic and feel themselves as stressful, as education level most of them have graduate degree.

Most of the drivers who describe themselves as professional driver are graduated from secondary school and they feel themselves as strong and self-sufficient and integrated with their vehicles and they describe their vehicles, as it is one of their unit.

One of the conspicuous points in Figure 1 is that the drivers who feel themselves as aggressive are those who describe themselves as congenital, describe their car as a good friend and as an education level, they have a graduate degree.

Related with describing themselves, CHAID Analysis results for the drivers that they exposure is given in Figure 2.

#### Figure 2. CHAID Analysis results for the drivers that they exposure

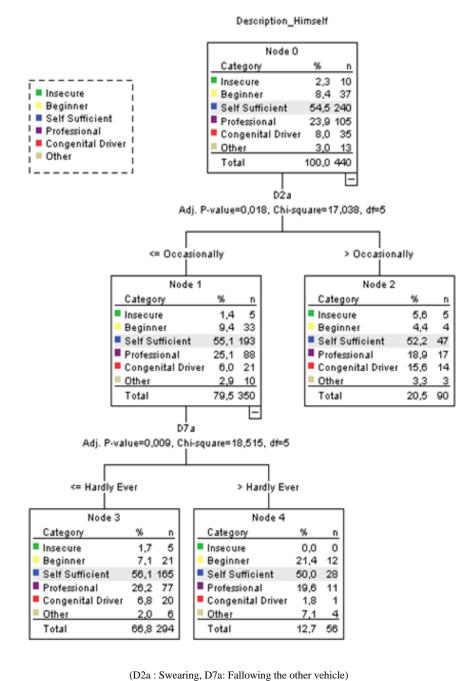
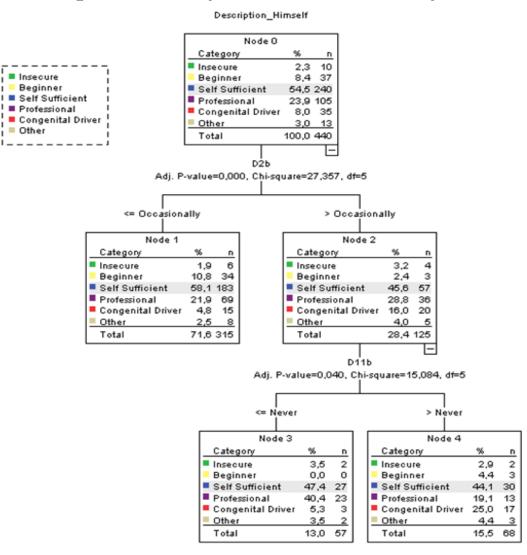


Figure 2. shows that in point of being exposure, the most effective factor on describing themselves for these drivers is swearing (D2a). Most of the drivers who had been swearing less or equal occasionally describe themselves as self-sufficient driver (55.1%). The effective factor on these drivers is found as fallowing the other vehicle (D7a).

CHAID Analysis results for the drivers that they do related with describing themselves, is given in Figure 3.

#### Figure 3. CHAID Analysis results for the drivers that they do



(D2b: Swearing, D11b: Blocking the switching (like overtaking) of the other vehicle)

Figure 3. shows that in point of behaviors of the drivers towards others, the most effective factor on describing themselves is swearing (D2a).

The percentage of the drivers who swear less or equal occasionally is greater than they expose as 58,1% and they again describe themselves as self-sufficient driver.

On the other hand, blocking the switching (like overtaking) of the other vehicle (D11b) found statistically effective factor on the drivers who swear more than occasionally and within these drivers, describing themselves as professional driver (40,4%) are the drivers who never blocks manure of the other drivers.

#### 4. CONCLUSION

The results of the analysis show that while most of the drivers participated in this study describe themselves as self-sufficient, most of them also feel as habitant.

On the other hand, the drivers who describe themselves usually self sufficient are exposed to be swearing by the other drivers while they are driving incautiously. Similar with this result, they also swear to other drivers in such cases. Like being exposing to same action as a reflex, it can be understood as a common behavior type of all drivers. The difference where after swearing that they expose and they do while driving is while they are exposed of being fallowed for other drivers (maybe to be warned for the mistake) they show much aggressive behavior like blocking the switching (like overtaking) of the other vehicle.

Of course education is one of the most important factor for the drivers to understand and empathize other drivers, being much careful while taking the wheel and obeying the traffic rules is as important as it. It's a known fact that Physiological factors related with the drivers mood effects the drivers attention and empathizing however a mistake on the road can be concluded with irremediable results that effect the whole life of human beings.

Finally, the recommendation to all vehicle drivers; please make an empathy, behave in a respectful manner to other drivers and keep calm for your and others future.

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