

# **RECONSTRUCTION OF TRAFFIC ACCIDENT: PASSENGER CAR VAN AND SEMI-TRAILER COLLISION**

**Kalomoiris Dimitrios**

## **ABSTRACT**

This graduate thesis examines a road accident on 30/1/2015 at 21,850 km of the New National Road Patras - Pyrgos, near Kato Achaia, a collision of a private passenger car with a van and then a collision of a train with a tractor and a tanker transporting dangerous goods to the vehicles that had collided and the PPV driver died. The accident is considered very serious due to the fatal injury of the driver of the Ford Fiesta but also the increased risk to traffic and road users from the positions of the vehicles involved on the road accident after the collision, the transported loads and the size of the road-train. Bibliographic references are given for similar road accidents and possible reasons that may cause such accidents. The reconstruction of the accident, the description of the vehicles involved in the accident, photographs and recording of the scene of the accident are presented. An algorithm with a spreadsheet is proposed to calculate the speeds of the vehicles involved before and after the collision. The method presented helps to systematize the reconstruction of similar accidents.

Key words

Vehicles Accident Reconstruction Methods, Forensic Engineering