Trasology and its use in crime investigation

Abstract

Title of this thesis is Trasology and its use in crime investigation. This thesis focus on

trasology which is discipline of forensic science examining foot traces, traces of other body

parts and traces of vehicles.

The objective of this thesis is to provide its reader basic summary about this discipline

of forensic science and methods used in this discipline especialy aplication of biomechanines

in trasology and height estimation from foot prints dimensions. This thesis is divided into

eleven chapters. First chapter after introducing chapter is chapter about history of trasology,

folowing chapters describe individual groups of trasological traces. Folowing chapters focus

on methods of detecting and capturing trasological traces. Chapters number seven and eight

are about methods of forensic examination of trasological traces.

Main part of this thesis consist of chapter about aplication of biomechanics in

trasology and experimental chapter presenting results of comparison of methods of height

estimetion from foot prints dimensions. Biomechanics is used in trasology mainly for

estimation of height from traces of various body parts. In the experimental chapter you can

find comparison of six methods of height estimation from length and breadth of foot traces.

The accuracy of estimation vary in case of each method. Especially in case of older methods

from 19th century the estimation is rather rough. Much more accurate are modern methods

using both length and breadth to estimate height. The data used for the experimental part are

from group of volunters consisting of 28 men and 18 women in age from 19 to 27.

Keywords: trasology, forensic science, traces