FOUNDATIONAL STUDIES RELATED TO FOOTWEAR IMPRESSION EVIDENCE

Introduction

The following is a list of research that has been conducted in the forensic footwear discipline, divided into particular topics.

For a list of active research being conducted in the field of footwear and tire impression evidence, please refer to the active research and development projects at TreadForensics.com.

Please note, there are currently two on-going decision analysis studies to test the accuracy of examiner opinions (i.e. black box) being conducted at West Virginia University and the Federal Bureau of Investigation Forensic Laboratory. These types of studies were singled out by PCAST as needed to establish the scientific validity and degree of reliability of footwear impressions evidence.

As this is a “living” document, it will be updated as new research is released. However, should you have any references you feel need to be added or have any comments regarding the list, please email the chair of the IAI Footwear & Tire Track Examination Sub-Committee.

STUDIES THAT RELATE TO THE RELIABILITY AND EXAMINATION OF CLASS (MANUFACTURED) CHARACTERISTICS

Benedict, I. et. al. (2014), Geographical Variation of Shoeprint Comparison Class Correspondence, Science and Justice, 54(5): P. 335-337.


Hancock, S. et. al. (2012), The Interpretation of Shoeprint Comparison Class Correspondence, Science and Justice, 52(4): P. 243-248.

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STUDIES THAT RELATE TO THE RELIABILITY AND EXAMINATION OF WEAR AND RANDOMLY ACQUIRED CHARACTERISTICS


DeHaan, J. D. (1987), Wear Characteristics of Men’s Footwear, Presented at the International Association of Forensic Science meeting, Vancouver, B.C.


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Boot Impressions Based on Wear Patterns, Science & Justice, 42(2): P. 97-104.


Hayes, A. J. (1994), Factors that influence wear on shoes, Presented at the International Symposium on the Forensic Aspects of Footwear and Tire Impression Evidence, FBI Academy, Quantico, VA.


Toso, B. & Girod A. (1997), Evolution of Random Characteristics (Appearance and Disappearance, Presentation conducted at the First European Meeting of Forensic Science, Lausanne, Switzerland.


STUDIES THAT RELATE TO EXAMINER CONCLUSIONS


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STUDIES THAT RELATE TO AUTOMATED CLASSIFICATION OF FOOTWEAR, DATABASE CREATION AND INTELLIGENCE


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Milne, B. (2013), Forensic Intelligence, CRC Press.


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TERMINOLOGY AND TEXTS RELATED TO THE EXAMINATION OF FOOTWEAR EVIDENCE


