



ASCLD FRC Lightning Talks

Algorithms and AI in Forensics

Thursday September 16th, 2021, 1:00 EST, WebEx

Register at: <https://www.asclد.org/forensic-research-committee/>



Use of AI in Forensics

Rolf Ypma, Principal Scientist, National Forensics Institute

This lightning talk will showcase how AI methods are being developed, validated and applied at the Netherlands Forensic Institute (NFI). I will give examples from both the investigative and evaluative phase of the forensic process, and touch on some of the difficulties we face in practice.



Forensic AI and Algorithmic Opacity from a Legal Perspective

Karen McGregor Richmond, Postdoctoral Fellow, Københavns Universitet

In this lightning talk I argue that the evidential challenges associated with the introduction of opaque machine learning algorithms, though global in nature, are neither novel nor unfamiliar. Indeed, throughout the past decade and across a multitude of jurisdictions, criminal justice systems have been required to assess data drawn from opaque forensic algorithms, particularly in relation to complex DNA mixture analysis. The ways in which the courts have responded to these challenges offer valuable lessons on the pitfalls to be avoided, and the collaborative solutions necessary to stabilise these disruptive technologies.



Algorithms in Forensic Science: A Practical Approach to Implementation

Henry Swofford, Principal Forensic Analyst, HJS Consulting

In recent years, various algorithms have been proposed to provide statistical approaches to the interpretation of pattern evidence; however, none of them have been being widely adopted. This presentation will outline the salient factors affecting the use of algorithms operationally and propose a strategy for approaching the implementation of algorithms, and the different ways they can be implemented, in a responsible and practical manner.